CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, April 9, 1908.

CONTENTS.

CONSTRUCTION NEWS:
Plans and Specifications on File 117
List of Contracts Pending 117
Railways 117
Electric Railways 118
Light and Power Plants 118
Bridges 119
Buildings 119
Water Supply and Irrigation 120
Sewerage 121
Garbage Disposal 121
Streets and Roads 121
Manufacturing Plants 122
Miscellaneous Contracts 122
Contract Prices 123
U. S. Possessions and Cuba 124
CIVIL SERVICE EXAMINATIONS 124
INDUSTRIAL NOTES 124
PROPOSALS 124

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

(denotes that this work is advertised in Engineering News.)*

The following Plans (P.) and Specifications (S.) are on file and may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.	Work.	Place.	See issue.
4-13*	Stone road, Freehold, N. J.	(S.)	4- 9
4-15*	Dam, Portland, Ore.	(S.)	2-27
4-17*	Dredging, Detroit, Mich.	(S.)	3-19
4-17*	Breakwater, Boston, Mass.	(S.)	3-19
4-17*	Pumping engine, White Plains, N. Y.	(S.)	4- 2
4-22*	Bridges, Philadelphia, Pa.	(P.& S.)	4- 9
4-20*	Pier, dredging, Milwaukee, Wis.	(S.)	3-26
5- 1	Floating crane, Quebec, Que.	(S.)	2-20
5- 1*	Reduction works, Columbus, Ohio	(S.)	3- 5
5- 1*	Concrete seawall, Key West, Fla.	(P. & S.)	3-26
5-16	Lighting system, New Ft. Lyon, Colo.	(S.)	4- 9

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

4-11 Conduit, etc., Bessemer, Ala..... 3-12
4-11 Conduits, etc., Portsmouth, Va.. 3-12
4-13 Elec. equipment, New York..... 4- 2
4-13 Lights, Galveston, Tex..... 4- 9
4-14 Supplies, Washington, D. C..... 4- 9
4-15 Elec. supplies, Wash., D. C..... 4- 2
4-18 Power-house, etc., Juneau, Wis.. 4- 2
4-20 Elec. equipment, New York, N. Y. 4- 9
4-21 Light plant, Ligonier, Ind..... 4- 9
4-23 Elec. plant, etc., Boston, Mass.. 4- 2
4-23 Power-house, etc., Loyal, Wis... 4- 2
4-29 Electric supplies, Chicago, Ill.. 4- 9
5-16 Lighting system, New Ft. Lyon, Colo. 4- 9

BRIDGES.

4- 9 Wooden bridge, Vicksburg, Miss. 3-26
4- 9 Bridges, Goldendale, Wash..... 4- 2
4- 9 Bridge, Middletown, Ohio 4- 2
4-10 Bridges, Kansas City, Mo. 4- 2
4-10* Bridge, Reading, Pa.. ..... 4- 2
4-10 Bridges, Fort Meade, S. Dak..... 3-19
4-11 Steel bridges, Hamburg, Ark..... 3-26
4-11 Bridge, Findlay, Ohio..... 4- 9
4-13 Bridges, New Philadelphia, Ohio.. 4- 2
4-13 Substructure, Newark, Ohio 4- 2
4-14 Bridge, Eureka, Cal 4- 2
4-15* Bridge, Mamaroneck, N. Y..... 4- 9
4-15 Bridge, Chicago, Ill..... 4- 9
4-16 Culvert, Martins Ferry, Ohio.... 4- 9
4-16 Bridges, Alhambra, Cal..... 4- 9
4-17 Bridge, Castle Rock, Colo..... 4- 9
4-18 Bridge, Fergus, Ont..... 4- 9
4-18 Superstructure, Lancaster, Ohio .. 4- 2
4-20 Substructure, Zanesville, Ohio.... 3-26
4-20 Bridge, San Antonio, Tex..... 4- 9
4-20 Bridge, Emerald, Pa..... 4- 9
4-20 Bridge, West Union, Ohio..... 4- 9
4-20 Superstructure, Stroudsburg, Pa. 4- 9
4-22* Bridges, Philadelphia, Pa..... 4- 9
4-25 Bridge, Cleveland, Ohio..... 4- 9
4-25 Superstructure, Norwood, Ohio.. 4- 9
4-30* Viaduct, Lynchburg, Va..... 4- 9
5- 1* Bridges, Vancouver, B. C..... 4- 2
5- 1 Bridge repair, Mauch Chunk, Pa. 4- 2
5-10 Bridge, Virdin, Man..... 4- 9
5-11 Bridge, Lane, Idaho 4- 2

BUILDINGS.

4-10* Post-office, Jackson, Miss..... 3- 5
4-11* Post-office, Bessemer, Ala..... 3- 5
4-11 Factory, Toronto, Ont. (Mfg. Pl.) 4- 9
4-13 Bakery (Mfg. Pl.), Wash., D. C... 4- 2
4-13 Heating, etc., New York, N. Y... 4- 2
4-14 post-office, Tacoma, Wash..... 2-27
4-14 Hospital, Columbus, Ohio 3-26
4-15* Buildings, Ft. D. A. Russell, Wyo. 3-26
4-15 Post-office, Ithaca, N. Y..... 3-12
4-15 Terminals, etc., Winnipeg, Man.. 4- 2
4-15 Creamery (Mfg. Pl.), San Luis Obispo, Cal 4- 2
4-15 School, Rochester, N Y..... 4- 9
4-16 School plans, Kalamazoo, Mich. 4- 9
4-16 Laundry, etc., Ellis Island, N. Y. (Mfg. Pl.) 4- 9
4-16 Elevators, Washington, D. C..... 4- 2
4-18 Prison, St. Paul, Minn 4- 2
4-20* Heating, Green Bay, Wis..... 3-26
4-20* Plans, etc., Massillon, Ohio..... 4- 9
4-20 School repairs, New York, N. Y.. 4- 9
4-20 Heating, etc., New York, N. Y... 4- 9
4-21 Library, Cincinnati, Ohio 4- 2
4-21* Hospital, Whipple Brks., Ariz... 4- 2
4-21* Hospital, Philadelphia, Pa..... 4- 2
4-23 Heating etc., Spokane, Wash..... 3-19
4-25* Staircases, etc., Wash., D. C.... 4- 9
4-27 Courthouse, Bucyrus, Ohio..... 4- 9
4-28 Post-office, Watertown, S. Dak.. 3-19
4-28* Post-office, Crookston, Minn.... 3-19
4-30* Schools, Ft. Monroe, Va..... 4- 2
5- 4* Post-office, Bar Harbor, Me..... 3-26
5- 4* Buildings, etc., San Francisco, Cal. 3-26
5- 5 Tower, St. Paul, Minn 4- 2
5- 8* Screens, Whipple Barracks, Ariz. 4- 9
5- 9* Post-office, Eugene, Ore..... 4- 2
5-11 Post-office, Calais, Me..... 4- 9
5-12* Assay office, New York, N. Y... 4- 9
5-14* Interior decoration, Wilkes-Barre, Pa..... 4- 9
5-15 Hospital (U. S. Possessions) Porto Rico 4- 9
5-21* Hospital, Buffalo, N. Y..... 4- 9

WATER-WORKS.

4-10* Intake pier, Quindaro, Kan..... 3-19
4-10* Pipe, Holyoke, Mass..... 3-26
4-10 Basin, etc., Oklahoma City, Okla. 4- 2
4-10 Standpipe, Shiner, Tex 4- 2
4-13 Drain, New York, N. Y..... 4- 2
4-13 Reservoir, Fair Play, Colo..... 4- 9
4-13 Water-pipe, Portage La Prairie Man. 4- 9
4-13 Standpipe, St. Paul, Minn..... 4- 9
4-13 Water mains, Albert Lea, Minn.. 4- 9
4-13 Pipe, Charleston, S. C..... 4- 9
4-14 Water pipe, Montreal, Que..... 4- 9
4-14 W.-Works, Palmerston, Ont..... 4- 2
4-14 W.-Works, Maxton, N. C..... 3-12
4-14* Special castings, etc., Oswego, N. Y. 3-26
4-15 Boilers, New York, N Y..... 4- 9
4-15 Canal, Hamilton, Mont..... 4- 9
4-15 Laterals, Caldwell, Idaho..... 4- 9
4-15 Well, Clinton, Ont..... 4- 9
4-16 Specials, Prince Albert, Ont..... 4- 9
4-16 Wells, Fort Dade, Fla..... 4- 2
4-17* Pumping engine, White Plains, N. Y. 3-26
4-18 Distributing system, Fort D. A. Russell, Wyo.. .... 4- 2
4-18 Water tower, Stillwater, Minn.... 4- 2
4-20 Wells, Fort Casey, Wash.. ..... 4- 2
4-20 W-Works, Versailles, Ky..... 4- 2
4-20 Vitrified pipe, Guelph, Ont..... 4- 9
4-20 Water tanks, New Orleans, La.. 4- 9
4-21 Trench, Hollidaysburg, Pa..... 4- 9
4-21* Engine, Oswego, N Y..... 4- 9
4-21 Pipe, Cincinnati, Ohio 4- 2
4-22 Pipe, Toledo, Ohio 4- 2
4-22* Pump, Oswego, N. Y..... 4- 9
4-22 Drain, Lake City, Iowa..... 4- 9
4-25 Meters, Norwood, Ohio..... 4- 9
4-28 Pipe system, Malta, Ohio..... 3-26
5- 4* Pumping engines, Wilmington, Del. 4- 2
5-18* Water-works plant, Council Bluffs, Iowa 3-19

SEWERS.

4-10 Sewers, Huron, S. Dak ..... 4 -2
4-10 Sewer, Hopkinsville, Ky..... 4- 9
4-11 Sewer, Houston, Va..... 4- 9
4-11 Sewer, Dover, N. J..... 4- 9
4-14* Sewers, Woonsocket, R. I. 4- 2
4-15 Sewer system, Fort Slocum, N. Y. 3-19
4-15 Sewer, Alamosa, Colo..... 3-26
4-16* Sewers, Huntingdon, Pa..... 4- 9
4-16 Sewer, New York, N. Y..... 4- 9
4-16 Sewers, Cleveland, Ohio..... 4- 9
4-16 Sewers, Norfolk, Neb..... 4- 9
4-18 Sewer, Fort D. A. Russell, Wyo. 4- 2
4-18 Sewer, Oshkosh, Wis. 4- 2
4-20* Sewer pipe, Guelph, Ont..... 4- 2
4-20 Sewer, Steubenville, Ohio..... 4- 2
4-20* Sewer system, Versailles, Ky.... 4- 2
4-20 Sewers, Bronxville, N. Y..... 4- 9
4-20 Sewers, Washington, D. C..... 4- 9
4-22* Sewers, Philadelphia, Pa..... 4- 9
4-22 Sewer, New York, N. Y..... 4- 9
4-22 Sewer, Oakland, Cal..... 4- 9
4x23 Sewer pipe, Brantford, Ont..... 4- 9
4-29* Interceptor, Baltimore, Md..... 4- 9
5- 4 Pipe sewers, Macon, Mo..... 4- 9

STREETS AND ROADS.

4-10 Grading, etc., Sweetwater, Tenn.. 3-26
4-10 Grading, etc., Spokane, Wash 4- 2
4-10 Paving, Janesville, Wis 4- 2
4-10 Grading, etc., Elgin, Ill..... 4- 9
4-11 Sidewalks, Lake Village, Ark 4- 2
4-13 Gravel plant, New Brighton, Minn. 4- 2
4-13 Paving, Reno, Nev..... 3-26
4-13* Stone road, Freehold, N. J..... 3-26
4-13 Road improvem't, St. Paul, Minn. 4- 9
4-13 Paving, Atlantic City, N. J..... 4- 9
4-13 Brick, Hartford, Conn..... 4- 9
4-14 Street impvt., Ridgewood, N. J.. 4- 9
4-14 Road impvt., Ellicott City, Md.. 4- 9
4-14 Paving, Houston, Tex..... 4- 9
4-14* Street repair, Peoria, Ill..... 3-26
4-14 Grading, etc., Hopewell, N. J..... 4- 2
4-14 Macadam, Concord, N. H 4- 2
4-14 Grading, Oxnard, Cal 4- 2
4-15 Roads, Kokomo, Ind 4- 2
4-15 Grading, Houston, Tex..... 4- 9
4-15 Paving, California, Pa..... 4- 9
4-16 Pavement, New York, N. Y..... 4- 9
4-16 Paving, Brooklyn, N. Y..... 4- 9
4-16* Grading, etc., Altoona, Pa..... 4- 9
4-16 Grading, etc., Cleveland, Ohio... 4- 9
4-16 Asphalt repair, New York, N. Y. 4- 2
4-16 Roads, Washington, Pa..... 3-26
4-17 Road improvement, Cincinnati, O. 4- 2
4-17 Street repair, New York, N. Y.. 4- 9
4-18 Pavement, Tomah, Wis..... 4- 9
4-18 Street impvt., New Albany, Ind. 4- 9
4-18 Resurfacing, etc., Indianapolis, Ind... .... 4- 2
4-20 Paving, Chehalis, Wash 4- 2
4-20 Grading, etc., Ashland, Ohio 3-26
4-20 Pavement, Albert Lea, Minn..... 4- 9
4-21 Brick, St. Louis, Mo..... 4- 9
4-21 Sidewalks, Mt. Healthy, Ohio.... 4- 9
4-22 Sidewalks, etc., Brooklyn, N. Y.. 4- 9
4-23 Brick, Brantford, Ont..... 4- 9
4-23 Street impvt., Green Bay, Wis. 4- 9
4-24 Asphalt blocks, Savannah, Ga... 4- 9
4-25 Macadam, Fort Omaha, Neb..... 4- 9
4-28 Sidewalk, Janesville, Wis..... 4- 9
5- 1 Wagon road (U. S. Possessions) Alaska 4- 2
5- 1* Paving, San Salvador, Salvador, C. A. 3-12
5- 1 Paving, Huntsville, Ala 4- 2

MISCELLANEOUS.

4-10 Dredging, New York..... 4- 2
4-10* Dredging, New York 3-12
4-10 Wire fence, Edmonton, Alta.... 3-26
4-10 Drainage ditches, Fort Meade, S. Dak. 3-26
4-11 Ditch, Frankfort, Ind..... 4- 2
4-11* Metal work, Wilmington, Del.... 3-26
4-13 Garbage Furnace, Tarentum, Pa.. 4- 2
4-13 Machine parts (Garbage) New York, N. Y..... 4- 9
4-14 Dredging, New York..... 4- 9
4-14 Ditches, Houston, Tex..... 4- 9
4-14 Ferryboat, Sandpoint, Idaho..... 4- 2
4-15 Wall, Oakland, Cal..... 4- 2
4-15 Derricks, Brooklyn, N. Y..... 4- 2
4-15 Dam, etc., Portland, Ore..... 3-26
4-15 Ashes (Garbage), Washington, D. C. 4- 9
4-15 Boat wagons, carts, etc., N. Y.. 4- 9
4-15 Canal, Hamilton, Mont..... 4- 9
4-15 Stone crushing plant, North Pownal, Vt 4- 9
4-16 Sodding, New York, N. Y..... 4- 9
4-16 Tunnel, New York..... 4- 9
4-16 Sand, New York..... 4- 9
4-16 Fire alarm system, Montreal, Que. 4- 9
4-16 Trolley tracks, New York..... 4- 2
4-17* Breakwater, Boston, Mass..... 3-19
4-17* Dredging, Detroit, Mich..... 3-19
4-17 Tow boats, Cincinnati, Ohio 3-26
4-17 Sea walls, North Scituate, Mass. 4- 9
4-20 Garbage collection (Garbage), South Orange, N. J..... 4- 9
4-20* Pier, dredging, Milwaukee, Wis. 3-26
4-20 Wharf, causeway, New Orleans, La. 4- 2
4-21 Barge canal, Albany, N. Y..... 3-26
4-21* Structural steel, Boston, Mass.... 4- 2
4-21 Light station, San Francisco, Cal. 4- 9
4-22* Pierhead line hearing, N. Y..... 4- 9
4-23* Foundation piers, Wilmington, Del. 4- 9
4-23* Monument, Charleston, S. C.... 3-26
4-24 Breakwater, Toronto, Ont..... 3-26
4-24* Steam roller, Holyoke, Mass.... 4- 2
4-24 Ice piers, Halifax, N. S..... 4- 9
4-24* Dike, Boston, Mass 4- 9
4-25 Monument, Washington, D. C... 4- 2
4-28* Rock removal, New York..... 3-19
4-28 Steamer, Ottawa, Ont..... 4- 9
4-29 Wharf, Ft. Totten, N. Y..... 4- 9
4-30* Ammunition hoists, Salem, N. J. 4- 9
4-30 Steamer, Washington, D. C..... 4- 9
4-30* Test borings, St. Louis, Mo..... 4- 2
4-30* Dredging, Boston, Mass..... 4- 2
5- 1 Cement (U. S. Poss.), Panama.. 4- 9
5- 1* Concrete sea-wall, Key West, Fla. 3-26
5- 1 Floating crane, Quebec, Que..... 2-20
5- 4* Sea wall, wharves, San Francisco, Cal. 3-19
5- 4 Ditch, Juneau, Wis 4- 2
5- 6* Sea wall, etc., Boston, Mass.... 4- 9
5- 7* Dredging, Wilmington, Del..... 4- 9
5- 7* Dredging, Bangor, Me..... 4- 9
5- 7* Jetty, Savannah, Ga..... 4- 9
5- 8 Subway, New York, N. Y..... 4- 9
5-10 'Phone system, Virden, Man.... 4- 9
5-11 Sea wall, Newport, R. I..... 4- 9
5-11* Reduction works, Columbus, O... 2-20
5-20* Iron fence, Ft. Ontario, N. Y... 4- 9

FOREIGN.

4-10 Bridge, Netherlands 3-19
4-13 Cement, Egypt 3-19
4-14 Laying cables, Australia 3-19
4-25 Dredger, Argentina 2-13
5- 1 Elec. railway, Argentina..... 11-21
5- 6 Ry. concession, Spain 3-19
5-26 'Phone material, Australia..... 2-13

CIVIL SERVICE.

4-15 Engineer, Arizona 3-26
4-15 Scientific asst., Wash., D. C.... 3-26
4-15 Junior engineer, Wash., D. C.... 3-26
4-15 Asst. engineer, Wash., D. C..... 3-26
4-18 Conduit inspector, Albany, N. Y.. 3-26
4-18 Mech. engineer, Albany, N. Y... 3-26
4-18 Asst. chief engr., Albany, N. Y.. 3-26
4-18 Asst. C. E., Albany, N. Y..... 3-26
4-18 C. E. draftsman, Albany, N. Y.. 3-26
4-22 Grain standardization assistant, Washington, D. C..... 3-26
4-29 Magnetic Observer, Wash., D. C. 3-26
4-29 Blacksmith, Browning, Mont..... 3-26
4-30 Inspector Pipes, Castings, New York 4- 9
5- 5 Inspector Pipe Laying, New York. 4- 9
5- 7 Inspector Hydrants, New York... 4- 9
5-12 Inspector Light & Power, New York 4- 9
5- 6 Apprentice, Wash., D. C..... 3-26

RAILWAYS.

(denotes that this work is advertised in Engineering News.)*

ARKANSAS.—W. L. Marshall, of Mountain Home, Ark., is interested in project to build a railroad from Mountain Home to a connection with the St. Louis, Iron Mountain & Southern Ry., eleven miles, this being the beginning of a through line from St. Louis to the Southwest. Survey has been made but general plans are delayed indefinitely.

BIENVILLE & QUITMAN.—This railway will be built principally for logging purposes. It will be 18 miles long and will supply the mill of the D. C. Richardson-Taylor Lumber Co., at Bienville, La. G. W. LUCKY has the contract. One mile has been constructed and three miles are graded; all material is bought. D. C. Richardson is Pres.; W. F. Taylor, Vice-Pres.; Z. R. Lawhon, Secy-Treas.; J. D. Batcheider, Auditor; J. P. Jackson, Gen. Mgr.; E. E. Scott is Engr.-in-Charge, Bienville. Noted on March 26.

CALIFORNIA.—James Cane and others, of Bodie, Cal., are interested in plan to build a railroad this summer from Bodie, Mono County, to a point near Mina, Nev.

Contract has been awarded to RASOR BROS., Farmers' Exchange Bank Bldg., San Bernardino, Cal., engineers and surveyors, to run a line for a branch railroad to connect with the Tonopah & Tidewater near Silver Lake, Cal., running within two miles of Crackerjack Bonanza mine and ending at Iron Mountain mine. The road will be about twelve miles long, and actual construction will be under way soon.

CANADIAN PACIFIC.—The branch between Lethbridge and McLeod, Alta., will be built by JANSE & MACDONALD, Maple Creek, Sask. Approximate cost, $500,000. The length of this branch will be 36 miles.

CHICAGO, CINCINNATI & LOUISVILLE.—James P. Goodrich, Receiver, has asked authority from Judge Anderson, of the United States Circuit Court, Indianapolis, to issue $1,500,000 of receiver's certificates. The receiver states that with the amount asked the railroad can be put into such shape that it will sell for a good price. While the physical condition of the line in general is good, the receiver says that the road has never been fully completed or equipped. Noted on Feb. 27.

CHICAGO, JOLIET & CENTRAL ILLINOIS.—Incorporated in Illinois to build from Chicago to Joliet, through Lyons, in Cook County; Downer's Grove, Du Page County; Du Page Township, in Will County, and thence south through Lockport and Will County and to other points in the counties of Cook, Du Page, Will, Bureau, Peoria, Kendall, Grundy, La Salle, Putnam, Marshall, McLean and Livingston. The incorporators and first board of directors are Josiah Burnham, 163 East Randolph St.; H. D. Loeb, Geo. L. Turnbull, and Gerald Turnbull, 163 East Randolph St., and L. H. Stricker, all of Chicago. Noted on Dec. 26, 1907.

COLORADO, COLUMBUS & MEXICAN.—Contract has been awarded to the CARTER LUMBER CO., of Houston, Tex., for 36,000,000 ft. of lumber for ties, bridge timber, piling, etc., to be used in the construction of the proposed railway from Columbus, N. Mex., to Durango, Colo., and San Juan, N. Mex., coal fields. Surveys are in progress. The New Mexico Development Co. is building the railroad. W. H. Marsh is Pres., and George Estes, Secy., El Paso, Tex.

DEXTER & ONTARIO.—This company has been incorporated in New York to build and operate a steam railroad between Dexter and Dexter Junction, N. Y. Capital stock, $20,000. The directors are Charles C. Campbell, of New York; James E. Campbell, Clarence W. Campbell, and H. A. Long, of Dexter; J. A. Outterson, of Carthage; E. W. Campbell and James K. Mannigan, of New York; Alice M. Campbell and Florence E. Campbell, of Dexter.

FERROCARRILES NACIONALES DE MEXICO.—The company which is to own and operate the merger system of railways, known as the Ferrocarriles Nacionales de Mexico, and which include the trunk lines, branches and controlled properties of the Mexican Central Railway and the National Railroad of Mexico, was incorporated in Mexico City on March 28. The capital of the company is $460,000,000 (or $230,000,000 U. S. gold). The full board will consist of 21 members, of whom nine may reside abroad and form a local board sitting in New York. But at first the board is to consist of seven members only who have been designated as follows: Pablo Macedo, Gabriel Mancera, Ricardo Honey, Luis Elguero, Manuel de Zamacona e Inclan, Joaquin D. Casasus, and Guillermo de Landa y Escandon. These members will in due time make necessary appointments to fill up the board to its full membership of 21.

HARRISVILLE & CORNWALLIS.—J. B. Westfall, Secy., Harrisville, W. Va., advises us that this company proposes to build a 6-mile line connecting Harrisville and Cornwallis. Surveys are now being made. Right-of-way is obtained. Capital is being negotiated. Contracts probably will be let about May 1. W. S. Stout is Pres. and A. Wolverton is Ch. Engr., both at Harrisville. Incorporation was noted on March 12.

KENTUCKY NORTH & SOUTH.—This railway is projected from Greenup, Ky., to Bristol, Tenn., 230 miles. It has been surveyed from Greenup to Pound Gap, 180 miles. Construction will not be commenced at present. L. E. Niles is Pres.; T. J. Kirkpatrick, Treas., and E. E. Parsons, Ch. Engr., all at Springfield, Ohio. Headquarters of the company are at Covington, Ky.

LAWRENCE COUNTY.—Maxwell Coffin, Pres., Little Rock, Ark., advises us that contracts will be let about June 1 for building this railway. Noted on March 12.

MANISTEE & NORTHEASTERN.—An extension will be built to Alpena. E. Buckley is Pres. and Gen. Mgr., Manistee, Mich.

NORTHERN DAKOTA.—Bids will be received about April 15 for building this proposed line from Edinburg, N. Dak., on the Great Northern, north to a point near Hallson in Pembina County, thence northwest to a terminal not yet named on the Canadian boundary, in Cavalier County, a distance of about 21 miles. The work includes a 300-ft. pile trestle. Thos. D. Campbell is Pres. and Gen. Mgr.; C. H. McFarlane is Ch. Engr., Grand Forks, N. Dak.

PENSACOLA & NORTHEASTERN.—An ordinance has been introduced in the City Council, Pensacola, Fla., to transfer the franchise of the Pensacola & Northeastern R. R. Co. to W. K. Hyer, Jr., W. S. Keyser, A. A. Fisher, H. L. Covington and J. R. Saunders, of Pensacola. Another ordinance has also been introduced to transfer the franchise of the Pensacola, Alabama & Western Railway to J. A. Chaffin, R. B. Simpson, W. H. Knowles, C. W. Lamar and J. J. Sullivan, of Pensacola. The transfer will be made conditional upon the payment of $15,000 forfeit agreed upon with the original holders of the franchises, providing work was not begun within a given time.

PHILADELPHIA TERMINAL TRANSFER R. R.—Charter was granted to this company in Pennsylvania on April 2. The charter authorizes the company to build and operate a 14-mile line around Philadelphia, from a point on Mill Creek, in Lower Merion Township, Montgomery County, to the Delaware River in Tinicum Township, Delaware County, between the mouth of the Schuylkill River and Easington borough. The capital stock is $150,000. The officers are: E. B. Colket, Pres.; Meredith B. Colket, Percy C. Colket, G. W. Freed, Jr., Fleming Parke, Philadelphia; Clarence L. Potts, West Chester; C. S. Ayres, Ardmore; Franklin McCall, Haverford, and Herbert K. Adams, Eddington.

READING, AFTERTHOUGHT & NORTHEASTERN.—This company will soon advertise for bids for construction of its proposed line which will run from Bella Vista to Ingot, Cal. It will be 18 miles long. S. E. Bretherton is Supt., Ingot.

TRANS-CONTINENTAL.—Contracts for building extensions have been awarded as follows. (For full details see list of bids received, in issue of March 19): District "A" (1) GRAND TRUNK PACIFIC CONSTRUCTION CO.; "A" (2) GRAND TRUNK PACIFIC CONSTRUCTION CO.; "A" (3) WILLARD KITCHEN CO., Ltd., Fredericton, N. B.; "B" M. P. & J. T. DAVIS; "D" E. F. and G. E. FARQUIER, Ottawa, Ont.; "E" E. F. and G. E. FARQUIER.

The Trans-Continental Railway Commission will purchase the Temiscouata Railway for use as part of the line from Moncton, N. B., via Quebec, to Winnipeg, Man., 1,800 miles, it is announced. The Temiscouata Railway runs from Riviere du Loup, Que., via Edmundston Junction to Connors, 113 miles. Only the line from Riviere du Loup to Edmundston Junction, 81 miles, probably will be used as part of the through line. D. B. Lindsay is Gen. Mgr., Riviere du Loup, Que.

ELECTRIC RAILWAYS.

BROOKLYN, N. Y.—Following the announcement that J. P. Morgan & Co. had become the fiscal agents for the Brooklyn Rapid Transit Co., plans for extensive improvements in Brooklyn transportation facilities are being prepared by Mr. Morgan's representatives, according to the New York "Tribune." They will, it was said, be submitted to Mr. Morgan as soon as practicable after his return from Europe. It is understood that between $40,000,000 and $50,000,000 will be expended in Brooklyn Rapid Transit improvements in the near future. Much, however, depends upon the company securing rights-of-way over the Brooklyn, Williamsburg and Manhattan bridges, and the connecting of the terminals of these bridges on the Manhattan side. With these facilities it would be possible for the Brooklyn Rapid Transit to operate the subway loop as well as the subway extensions to the North River from the Williamsburg and Manhattan bridges, which is planned by the Public Service Commission. The plans also include the four-tracking of the Fulton St. elevated line to Franklin Ave. and the Brighton Beach line to Church Ave., and the third tracking of the Broadway, Fifth Ave. and Myrtle Ave. elevated lines. It is planned also to elevate the Culver, West End and Sea Beach lines now operating on the surface.

NEW YORK, N. Y.—The Hudson & Long Island Traction Co., of New York City, was incorporated at Albany on March 31 to operate a street railway 4¼ miles long from Twelfth Ave. and West 42d St., New York, to the plaza of the Blackwell's Island Bridge in Long Island City, with right to continue the line to Jamaica, L. I. Capital stock, $50,000. The directors are Frederick K. Morris, 2027 Seventh Ave.; Anthony Stumpf, 22 Pine St.; Arthur C. Hume, 30 Broad St.; Harold B. Weaver, Cassius M. Wicker, Henry A. Belden, William V. Lomax and John J. Clancy, of New York, and William B. Spencer, of Montclair, N. J.

NEW YORK, N. Y.—On the application of the Lorain Steel Co., Frick Bldg., Pittsburg, Pa., Judge Lacombe, in the United States Circuit Court on April 1 appointed Frederick W. Whitridge temporary receiver of the Union Railway Co., which operates lines in the Bronx and Westchester. Counsel for the company joined in the application. The receiver's bond was fixed at $50,000. The action was brought to recover $23,324 for material furnished and labor performed, which the railway company was unable to pay, besides being unable to satisfy a judgment for $12,600 obtained on March 20. Edward A. Maher is Pres. and Mgr., 204 East 128th St.

HARMONY, PA.—The Pittsburg, Harmony, Butler & New Castle Ry. Co., according to the Pittsburg "Post," has issued orders for an extra construction force to complete the main line between New Castle and Harmony by June 1. The rails are laid and poles up for overhead work on this section. The power house at Eidenau, Pa., is in operation, furnishing light and power for Harmony, Zelienople and Ellwood City. Owing to the destruction by floods of the false work for the bridge over the Connoquenessing gorge at Ellwood City, the completion of the section from Harmony into Pittsburg probably will not be completed before the middle of the summer. James Bryan is Ch. Engr., 1404 Park Bldg., Pittsburg.

CHRISTIANSBURG, PA.—A. A. Phlegar, Jr., Secy. of the Montgomery Electrical Co., advises us that this company hopes to begin work on its proposed electric railway to Cambria, 2¼ miles long, this year, but construction depends upon financial conditions. W. T. Simpson, Christiansburg, is Ch. Engr. Noted on March 12. The company has acquired the property of the Grayson Electric Co., and the municipal plant of the town of Christiansburg, Va. At present company will develop the plans acquired.

BIRMINGHAM, ALA.—The Birmingham Railway, Light & Power Co. has been granted an extension of one year in which to build proposed street railways on various streets in that city. L. H. Scherck is Bus. Mgr., Birmingham.

RICHMOND, IND.—The Richmond & Winchester Interurban Ry. Co. plans to begin construction of its line this summer. It will be 25 miles long and will extend from Richmond to Winchester, Ind., passing through Wayne and Randolph Counties and serving Chester, Fountain City, Lynn, Snow Hill and Woods. Stock is being subscribed for purposes of incorporation, making surveys and obtaining right-of-way. M. M. Lacey is Secy.

DETROIT, MICH.—Surveys are being made for the Saginaw, Owosso & Lansing R. R. Co.'s proposed line. Construction work may begin in a few months. The railway will be 64½ miles long and when completed it will connect Saginaw, Owosso, Laingsburg and Lansing. The company expects to operate 52 cars. The repair shops will be located in Owosso. The company is capitalized at $600,000. The officers are as follows: C. W. Baird, Pres.; Frank West, Secy.; Geo. M. Black, Treas., and J. A. Thick, Detroit, Gen. Mgr. Noted on Dec. 19.

DANVILLE, ILL.—Construction probably will be commenced this spring by the Wabash Valley R. R. Co. on its proposed line. As noted on Jan. 2, D. C. Johnson, of Clinton, Ind., Pres. of this company, advises us that "this proposed electric railway is to run from Danville, Ill., to Terre Haute, Ind., skirting the west bank of the Wabash River and passing through Clinton, Ind., connecting a chain of towns from Terre Haute to Danville, a distance of 54 miles. We believe this to be a very inviting field and have assurances that the money will be forthcoming." The officers of the company are as follows: D. C. Johnson, Clinton, Pres.; W. S. Lewis, Clinton, Vice-Pres.; B. S. Aikman, Newport, Secy., and H. B. Davis, Newport, Treas.

TAYLORVILLE, ILL.—The St. Louis, Terre Haute & Quincy Traction Co. has secured a franchise in Taylorville for the operation of its interurban line in that city. Most of the right-of-way in Christian County has been secured. Edward Yates, Pittsfield, Ill., is Pres. This company, which was incorporated last year to build an electric railway from Terre Haute, Ind., to Quincy, Ill., has purchased the property of the Virden & Taylorville Ry. and the Roodhouse & Virden Traction Co., including right-of-way which will be used for a portion of the line between Taylorville and Quincy, Ill. Noted on Feb. 20.

W. B. Adams, of this city, is interested in the construction of an interurban line from Mount Auburn to Taylorville, it is reported.

The Taylorville Street Railway, Light, Heat & Power Co. has been organized to build an electric railway and power plant in Taylorville. I. J. Perkins, Albert Morgan, J. A. Adams, and others are interested.

CHICAGO, ILL.—The Chicago City Ry. Co. will build over 50 miles of new track this year.

The Chicago Board of Supervising Engineers has issued an order for the reconstruction work to be completed by the Chicago City Ry. Co. during 1908, under the provisions of the franchise ordinance. The work includes the reconstruction of 43¼ miles of track with 129-pound grooved rails at an expense of $2,112,000 and conduit construction amounting to $316,000. H. B. Fleming is Ch. Engr., First National Bank Bldg.

AVA, MO.—Surveys have been made for the proposed electric railway from Ava, Douglas County, north to Cedar Gap, Mo., where a connection will be made with the St. Louis & San Francisco Railroad. The line will be 15 miles long. Grading will be started about April 15. The power house equipment will include a 300-KW. three-phase 60-cycle 6,600-volt alternator, direct connected to a water turbine, and two motor-generator sets. Contracts for rails, ties, steel, water power plant, auxiliary steam plant of 200-KW. capacity, grading, etc., will be let within the next 30 days. J. B. Quigley is Ch. Engr.

EL PASO, TEX.—Capt. Thomas A. Davis, Pres. of the El Paso Military Institute, has applied for permission to build an electric railway from El Paso to the institute, by way of Fort Bliss.

CHEHALIS, WASH.—Eugene A. Marsh, representing the Seattle Electric Co., the Portland Electric Co. and the Northwestern Long Distance Telephone Co., has applied to the City Council for a franchise for the construction of an electric railroad, light and power plant, and a telephone and telegraph system in Chehalis and Centralia.

PORTLAND, ORE.—The City Council has granted the franchise of the United Railways Co. to proceed with the construction of its lines to Mount Calvary Cemetery and Hillsboro. The management of the company expects to complete its line to Mount Calvary Cemetery within one year from the time of the granting of the franchise allowing work to proceed. J. W. Gardiner is Vice-Pres., Portland.

SANTA ANA, CAL.—It is proposed to build an electric railway from Tustin through Santa Ana, across the Santa Ana River and through peat lands to Huntington Beach. N. A. Ulm is the promoter, and the Santa Ana Merchants & Manufacturers' Association has given its endorsement and ordered that a committee be appointed to secure subscriptions to stock. The line will be built by local capital and will be operated independently. It will cost $150,000. On the committee are: Chamber of Commerce, A. J. Visel, D. H. Thomas, G. W. Minter, W. F. Lutz, G. J. Mosbaugh, O. M. Robbins, C. F. Heil, W. L. Tubbs, W. M. Scott, M. A. Menges, C. S. Forgy and Dr. H. S. Gordon. Merchants' and Manufacturers' Association—N. A. Ulm, G. A. Edgar, F. P. Nickey, H. C. Dawes, J. D. Parsons, J. A. Turner, C. S. Crookshank, and A. C. Bowers.

CALGARY, ALTA.—The Council of the City of Calgary is open to receive offers for the installation, construction, equipment and operation of a street railway in that city for a limited period of franchise. Companies making applications for same will state time required under franchise and other particulars. For particulars apply to H. E. Gillis, City Clerk.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

DEXTER, ME.—The Sebasticook Power Co., of Pittsfield, Me., will extend its transmission lines to Dexter, the cost of which is estimated at $14,000. The company proposes to make some arrangement with the local company, or any other company that may be organized, to furnish electrical energy for lamps and motors. C. E. Vickery is Mgr., Pittsfield.

BABYLON, L. I., N. Y.—The Babylon Electric Light Co. has been authorized by the Public Service Commission to issue $30,000 capital stock, to be used for improvements and extensions to its plant and distributing system. B. B. Wood, Babylon, is Mgr.

NEW YORK, N. Y.—Bids are asked until 11 a. m., April 20, by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, for installing electrical equipment in Public Schools No. 3, Boro. of the Bronx, No. 4, Boro. of Manhattan, Nos. 154 and 159, Boro. of Brooklyn.

SCRANTON, PA.—The Scranton Ry. Co., controlled by the American Rys. Co., will construct a power plant here on the Lackawanna River near its present power-house. Estimated cost, $500,000. Frank Caum, Scranton, is Mgr.

GREENSBURG, PA.—Bids are asked by the Board of Directors of the Westmoreland County Home, Daniel Bierer, Pres., Greensburg, until May 1, for the erection and equipment complete of a boiler house at the county home here. A. P. Darr is Supt. Plans were prepared by W. G. Sloan, Arch., Greensburg.

WASHINGTON, D. C.—Bids are asked until April 14 at the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., to furnish at the navy yards and naval stations the following supplies: Mare Island, Cal.—Schedule 918, one 10-HP. motor; Puget Sound, Wash.—Schedule 917, 2,000 ft. single conductor; about 19,000 ft. twin conductor; sockets and interior fittings; 20,000 ft. double conductor silk; 10,000 ft. bell wire, and 5,000 ft. signal cable and light fixtures. Schedule 919, 11,500 ft. seamless brass tubing. E. B. Rogers, Paymaster Gen., U. S. N.

WASHINGTON, D. C.—The District Commissioners have awarded contract for the electrical fixtures in the new Municipal Building, Washington, to the ENOS CO., 5 West 39th St., New York, at $6,278.

NORFOLK, VA.—The Norfolk & Portsmouth Traction Co. intends to erect a substation for its Portsmouth Division. E. C. Hathaway, Norfolk, is Gen. Mgr.; J. P. Keeney, Norfolk, is Ch. Engr. of Power Stations.

GADSDEN, ALA.—It is stated that the plans for the proposed power-house to be constructed at Lock No. 2 on the Coosa River call for a dam 30 ft. high, capable of developing about 125,000 HP. T. S. Kyle, Gadsden, is interested.

MOBILE, ALA.—John T. Cochrane, 614 City Bank Bldg., Mobile, desires prices on dynamos and electric outfit to furnish 300 lights, 500 and 750 lights, respectively.

LIGONIER, IND.—Bids are asked by the President and City Council until April 21 for furnishing material and constructing an electric light plant for this city. The work includes a power plant of either steam, with Corliss engine, or a gas engine and producer, or oil engine; one 100-KW. alternating-current generator, switchboard, pole line, wiring and 48 street arc lamps. Also furnishing meters and transformers. The power plant will be installed in water-works building owned by the city, on foundations to be built by the contractor. A. J. Hammond, of South Bend, Ind., is Engr. R. E. Jeanneret is City Clerk.

CHICAGO, ILL.—Bids are asked until April 29 by the Board of Trustees Sanitary Dist. of Chicago for the following: Division A—Steel poles and crossarms. Division B—Weather-proof insulated copper wire. Division C—Insulators. Bids may be submitted on one or all of the above divisions. I. J. Bryan is Clerk.

WINFIELD, KAN.—Bids are asked until April 29 by the State Board of Control, Topeka, Kan., for remodeling the boiler house at the School for Feeble Minded Youth, Winfield; also for a 75-KW. direct-current generator and engine for same institution. John F. Stanton is State Arch., Topeka.

SHOSHONE, WYO.—We are officially advised that the dam it is proposed to build on the Big Horn River was to have been 60 ft. in height, but it will be somewhat reduced, if built at all. Proceedings have been begun in the United States District Court by the Chicago, Burlington & Quincy R. R. Co. for the purpose of preventing the construction of a dam of any kind. The applicant, Asmus Boysen, obtained a right, through an act of Congress, to select 640 acres of land, before the Shoshone Indian Reservation was opened generally to the public. He selected lands which are supposed to have mineral value and the dam is planned to provide from 1,500 to 1,800 HP. [illegible] built to the height allowed by the offic[illegible] the State Engineer. It is the object o[illegible] applicant to develop and work his cla[illegible] by this power and probably to dispose [illegible]wer to other miners. The Ambursen [illegible]draulic Construction Co., 176 Federal [illegible] Boston, Mass., designed the dam to be b[illegible] and construction is now in progress. [illegible] about $100,000 and the cost of th[illegible] complete power installation will approxima[illegible]0,000. Clarence T. Johnston, Cheyen[illegible] Wyo., is State Engr. A map and copy o[illegible] application of Mr. Brown are on file at t[illegible] office of Engineering News, New York.

HELENA, MONT.—C. [illegible]mith, of the Capital City Improvement [illegible] Kohrs Block, Helena, advises us that it [illegible] expected to begin construction in the e[illegible] spring on a multi-cellular concrete ste[illegible] across the Missouri River in this vic[illegible]. The structure will have an approxim[illegible] head of 120 ft. and length of 1,500 ft. [illegible]m will be used for generating elec[illegible] power for transmission at 70,000 volts [illegible]se, to the cities and vicinities of H[illegible] Butte and Anaconda. There will be [illegible]ated some 40 miles of 70,000-volt cop[illegible] transmission line. M. H. Gerry, Jr., is C[illegible]rger, and W. L. Miller, Engr.-in-Charge. [illegible] work is being done by the Capital Cit[illegible] improvement Co. for the Capital City Powe[illegible]

GALVESTON, TEX.—Bids are asked until April 13 by John H. Murch[illegible] County Audr., for furnishing material and [illegible] installing a series of arc lamps along G[illegible] County Boulevard, from 23d to 39th sts.

SAN ANGELO, TEX.—Bids are asked by J. H. Ransom, San Angelo, until April 15, for a steam generating plant with direct connected engines and railway generators to operate an electrical railway here. Cost, $75,000. J. H. Longine is Engr., San Angelo.

NEW FORT LYON (Las Animas post-office), COLO.—Bids are asked by R. C. Holyday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., May 16, for an electric lighting system at the Naval Hospital, at this post. Specifications are on file at the office of Engineering News, New York.

SEATTLE, WASH.—The Board of Public Works has let the contract for the material to be used in the construction of the pipe line from the foot of Cedar Lake to the city power station, on Cedar River, a distance of three miles. The new pipe line will be six feet in diameter, and the principal part of the material will be manufactured in this city. The contract for the bands has been let to the BALLARD DROP FORGE CO.

PASCO, WASH.—The Pasco Light & Water Co. intends to install a steam plant of 150-HP. and move the plant now operated in the city down to the river, consolidating the two. W. S. Gilbert, Seattle, is Secy., Seattle.

SEATTLE, WASH.—MEACHAM & BABCOCK secured contract on March 23 for conduits and underground work on Third Ave. cluster lights, Sub. Dis. No. 1, at $27,718, and transformers and cables for Third Ave. cluster lights, Sub. Div. No. 2, at $10,650; F. T. CROWE & CO., Globe Bldg., for ornamental iron poles for Third Ave. cluster lights, Sub. Div. No. 3, at $5,202.

BREMERTON, WASH.—The Bureau of Yards and Docks, Navy Dept., Washington, has awarded contract for furnishing two boilers, flues and stacks for the Puget Sound Navy Yard, Bremerton, Wash., bids for which were received March 28, to the BABCOCK & WILCOX CO., North American Bldg., Philadelphia, at $33,756. Noted fully on April 2.

BERKELEY, CAL.—The Bay Counties Power Co. will remove its high-tension transmission lines from Grove and Rose Sts. in Berkeley. The company is securing the right-of-way for its pole line on the east side of the Berkeley Hills, to transmit electricity from the main plant in Oakland to the sub-station in Berkeley. Frank A. Leach, Jr., is Mgr.

WHITTIER, CAL.—The city of Whittier, Cal., is considering the establishment of a municipal electric light plant and a committee has been appointed by the Board of Trade, consisting of N. T. Edwards, C. F. Klingberg and H. E. Humphrey, to investigate the proposition. It is estimated that an installation can be made in connection with the present municipal pumping plant for about $75,000.

HUNTINGTON PARK, CAL.—The Huntington Park Gas & Electric Co. has been incorporated with a capital stock of $200,000 to construct an electric light and gas plant. The electric plant will be equipped with a 65-KW. generator, to be driven by 120-HP. twin engines, and the gas plant is designed to have a capacity of 20,000 ft. an hour. The contract for the construction of the gas plant exclusive of the pipe line has been awarded to E. A. McGILLIVARY, Stimson Bldg., Los Angeles, and it is stated that the WESTERN GAS ENGINE CO., 908 North Main St., Los Angeles, has secured the contract for the electric plant. Henry F. Leukfeld, Los Angeles, Cal., is Pres.

OGDEN, UTAH.—A. E. Parker, City Engr., has applied to the State Engineer for water privileges in South Fork Canyon, a tributary of the Ogden River, for the purpose of municipal lighting.

SYDNEY, N. S.—The WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburg, Pa., has secured a contract from the Dominion Iron & Steel Co., Sydney, for a 500-HP. electric generator, which will be used in the operation of one of the company's iron mines on Belle Island, Newfoundland.

SHERBROOKE, QUE.—The Sherbrooke Power, Light & Heat Co. contemplates installing a 500-KW. 3-phase, 60-cycle generator, to be installed by October. A. Sangster is Supt.

PORTAGE LA PRAIRIE, MAN.—The Central Electric Co., Ltd., proposes to expend between $25,000 and $40,000 for constructing a building and other improvements. John O'Brien is Mgr.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

FALL RIVER, MASS.—The New York, New Haven & Hartford R. R. Co. has asked permission from the State Legislature to construct a railroad bridge over the Taunton River. W. H. Moore, New Haven, Conn., is Engr. of Bridges.

BOSTON, MASS.—Two bids were received on April 2 by the city for rebuilding the Boylston St. bridge as follows: The Boston Bridge Works, 47 Winter St., Boston, $52,187; Converse & Co., $58,760.

WATERBURY, CONN.—The following bids have been received for constructing the Liberty St. viaduct: Fred T. Ley & Co., Inc., $41,267; Pasquale Contaldi, $31,863; Edward McManus, $29,162; O'Brien Construction Co., $25,470; C. W. Blakeslee, $21,363.

NEW YORK, N. Y.—Bids are asked by J. W. Stevenson, Comr. of Bridges, until 2 p. m., April 16, for the construction of the roadway pavement of the Blackwell's Island bridge over the East River, between the boroughs of Manhattan and Queens.

WESTFIELD, N. Y.—Boller & Hodge, 1 Nassau St., New York, are preparing plans for the construction of a concrete viaduct, to be erected near Westfield, N. Y., for the Buffalo & Lake Erie Traction Co. The viaduct will be double-tracked, 800 ft. long.

*MAMARONECK, N. Y.—Bids are asked by the Board of Trustees until 8.30 p. m., April 15, for the construction of a highway bridge over the Mamaroneck River. Charles W. Buckter is Clk. Board.

LOCKPORT, N. Y.—The bridge over the canal at the foot of Main St. will be replaced by a larger structure, 115 ft. long, estimated to cost $125,000.

TITUSVILLE, PA.—The contract for constructing a reinforced-concrete bridge here has been awarded to FRED MARKLEY. H. A. Holstein is City Engr.

BEAVER, PA.—Contracts aggregating $500,000 were awarded on April 1 to the DRAVO CONTRACTING CO., Lewis Block, Pittsburg, Pa., by the Pittsburg & Lake Erie R. R. Co. in connection with the construction of a bridge across the Ohio River at Beaver, which, when completed, will cost about $4,000,000. Work is to be started immediately on the structure.

*PHILADELPHIA, PA.—Bids are asked until April 22 by the Department of Public Works for the construction of the following bridges under Schedule A: Bridge on line of Hunting Park Ave. over the Philadelphia, Newtown & New York R. R., 60 ft. clear span reinforced-concrete arch, 90 ft. wide. Appropriation, $40,000; on line of Rockland St. over the North Pennsylvania R. R. 60 ft. clear span reinforced-concrete arch, 80 ft. wide. Appropriation, $40,000; on line of Sedgwick St. under Chestnut Hill branch of the Philadelphia & Reading Ry., double track railroad bridge, plate girder through, 67 ft. span on concrete abutments. Appropriation, $35,000; on line of Ontario St., under Richmond branch of the Philadelphia & Reading Ry., 3-track railroad bridge, plate girder through, 54 ft. span on concrete abutments. Appropriation, $40,000; on the line of Passyunk Ave., over Schuylkill River, substructure work only, seven concrete piers, two on pneumatic caisson foundations and five on wooden pile foundations. Appropriation, $200,000; on line of 29th St., over the connecting railway (two spans 32 ft., one span 88 ft., 62 ft. wide), 3-span highway bridge, steel superstructure encased in concrete on concrete piers. Appropriation, $74,000. George R. Stearns is Dir. Pub. Wks.

STROUDSBURG, PA.—Bids are asked until 1.30 p. m., April 20, by the County Commissioners for the construction of the superstructure of the bridge over Marshall's Creek in Smithfield Township. A. C. Track is Clk. Comrs.

NEW CASTLE, PA.—Thomas A. Gilkey, New Castle, has been commissioned to prepare plans for a structural steel bridge with concrete abutments to be erected this summer over Pittsburg St. The structure will be about 100 ft. long and 60 ft. in width. It will have a single span.

EMERALD, PA.—Bids are asked by the County Commissioners until 10 a. m., April 20, for the construction of a bridge over the tracks of the Lehigh Valley R. R. Co. here.

BALTIMORE, MD.—The Board of Awards has awarded the contract to SANFORD & BROOKS CO., Commerce and Water Sts., Baltimore, for the construction of three reinforced-concrete and steel piers, pier No. 4, 978 × 220 ft.; pier No. 5, 1,300 × 200 ft., and pier No. 6, 1,456 × 140 ft., at $1,219,517. B. T. Fendall is City Engr.

*LYNCHBURG, VA.—Bids are asked by the Joint Council Committee on Streets and Sewers until 2.30 p. m., April 30, for the construction of reinforced concrete viaduct. H. L. Shaner is Ch. Engr.

LYNCHBURG, VA.—Bids are asked until April 30 for the construction of a reinforced-concrete viaduct. Estimated cost, $30,000. H. L. Shaner is City Engr.

SPARTANBURG, S. C.—We are officially advised that the County Commissioners on March 30 awarded the contract for the construction of a steel bridge, 330 ft. long, and 16 ft. wide to A. D. McCLAIN. S. M. Bagwell is Clk. Comrs.

NEW ORLEANS, LA.—THE PENN BRIDGE CO., Beaver Falls, Pa., has been awarded the contract by the city for the construction of a bascule highway bridge across Bayou St. John, at Esplanade Ave., at $45,400. W. J. Hardee is City Engr.

CIRCLEVILLE, OHIO.—The County Commissioners on March 21 let the contract for constructing the east abutment and replacing the iron bridge over Salt Creek to REICHELDERFOR BROS. at $6.85 per cu. yd.

FINDLAY, OHIO.—Bids are asked by the County Audr., until 10 a. m., April 11, for extension of the Krout Bridge across the Blanchard River, in Delaware Township.

MARTIN'S FERRY, OHIO.—Bids are asked by the Board of Public Service, E. D. Lash, Clk., until noon, April 16, for the construction of a concrete culvert over Center St.

CLEVELAND, OHIO.—Bids are asked until 11 a. m., April 25, by the County Commissioners for the construction of a steel concrete bridge. William F. Black is Clk. Comrs.

NORWOOD, OHIO.—Bids are asked until April 25 by the Board of Public Service for furnishing material and constructing the superstructure of the viaduct over the B. & O. S. W. Ry., and Section Ave., bids on labor and material to be submitted separately.

WEST UNION, OHIO.—Bids are asked by S. S. Jones, County Audr., until noon, April 20, for constructing the substructure and superstructure of a bridge over the south fork of the Scioto Brush Creek, in Jefferson Township.

CONNERSVILLE, IND.—The Fayette County Commissioners are having plans prepared for the construction of a bridge 180 ft. long. J. L. Kennedy is County Audr.

GARY, IND.—W. F. Bridge, Consult. Engr., Hammond, Ind., and A. P. Melton, City Engr., have prepared designs for the construction of a bridge on Broadway, over the Little Calumet River, Gary, to be submitted to the Lake County Council, Crown Point, Ind. The structure as planned will be of steel and reinforced concrete, 258 ft. long with four 60-ft. spans, 62 ft. wide, accommodating two sidewalks and a roadway. Estimated cost, $35,000.

INDIANAPOLIS, IND.—The Commissioners of Marion County contemplate constructing a bridge over Lick River in Perry Township.

SOUTH BEND, IND.—The Commissioners of St. Joseph County have awarded contract for the construction of the Twin branch bridge and the Eutzler road bridge to HAZEL & HOBBS, of South Bend.

CHICAGO, ILL.—Bids are asked until April 15 by John J. Hanberg, Comr. Pub. Wks., for constructing the superstructure and substructure for a bascule bridge over the south branch of the Chicago River at Polk St.

JANESVILLE, WIS.—Bids are asked by the Street Assessment Committee until 2 p. m., April 28, for constructing a sidewalk on the east side of Monterey bridge over Rock River in Center Ave.

MASON CITY, IOWA.—Keerl & Stevens, Consult. Engrs., Parker Bldg., are preparing plans for the construction of a 160-ft. span steel and reinforced-concrete bridge, 60 ft. wide, on Main St., for the Board County Commissioners of Reno Gordo County. S. B. Duffield is County Audr.

REDWOOD FALLS, MINN.—The contract for constructing the bridge over the Minnesota River has been awarded to H. HAUSER of Franklin, Minn., at $6,890. Bids were opened on March 25. L. P. Larson is County Audr.

WINFIELD, KAN.—The Commissioners of Cowley County are having plans prepared for the construction of four reinforced-concrete bridges, one to cost about $20,000 and another $6,000; one pile bridge and three stone bridges, estimated to cost $34,000. A. H. Abrams is County Clk.

SAN ANTONIO, TEX.—Bids, including plans and specifications, are asked until April 20 by Bryan Callaghan, Mayor, for the construction of a steel deck bridge across the San Antonio River at Houston St.; also for the removal of the present steel truss bridge.

PORTLAND, COLO.—The PORTLAND CEMENT CO. was awarded the contract on March 25, by T. W. Jaycox, State Engr., for constructing a bridge across the Arkansas River at Portland, Fremont County, Colo., at about $11,000.

CASTLE ROCK, COLO.—Bids are asked by T. W. Jaycox, State Engr., Denver, Colo., until noon, April 17, for the construction of a 100-ft. reinforced concrete bridge, two 50-ft. spans, across Seller's Creek, at Castle Rock.

ALHAMBRA, CAL.—Bids are asked until April 16 by the city for constructing bridges, culverts and abutments. A. A. Clapp is City Clk.

OROVILLE, CAL.—The Supervisors of Butte and Glenn Counties have instructed J. B. Leonard, San Francisco, Cal., to prepare plans and specifications for the construction of joint county bridge to be erected over the Sacramento River. Estimated cost, $150,000. H. T. Batchelder is County Clk.

KENORA, ONT.—KELLY BROS., of Kenora, have been awarded the contract for constructing 17 bridges on J. D. McArthur's contract on the Grand Trunk Pacific Ry.

GRANT & MACDONALD have received several bridge contracts on the Grand Trunk Pacific Ry. from Foley, Welch & Stewart.

FERGUS, ONT.—Bids are asked by James Beattie County Clk., Fergus, Ont., until April 18 for the construction of the Mount Forest bridge. Bowman & Connor, 36 Toronto St. Toronto, Ont., are Engrs.-in-Charge.

CALGARY, ALTA.—Every wooden bridge on the main line between here and the Pacific coast on the Canadian Pacific Ry. will be replaced by steel structures this summer. F. F. Busteed, Vancouver, B. C., is Gen. Supt., Pacific Division.

WINNIPEG, MAN.—J. D. McArthur will sublet the contract for the construction of steel bridge across the Red River here.

VIRDEN, MAN.—Bids are asked until noon, May 10, by James F. C. Menlove, Secy.-Treas., for the construction of a steel bridge, with stone masonry abutments, with necessary excavation.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

CALAIS, ME.—Bids are asked until 3 p. m., May 11, by James Knox Taylor, Superv. Arch., Washington, D. C., for construction, including plumbing, gas piping, heating apparatus, electric conduits and wiring, of the U. S. post-office and customhouse at Calais.

NEW BEDFORD, MASS.—JOHN B. SULLIVAN & SON, 560 Cottage St., New Bedford, have secured the contract for remodeling city hall into a library building. Cost, about $148,736.

HARTFORD, CONN.—The contract for remodelling the Halls of Record was awarded on April 6 to D. K. CONWAY, of this city.

NEW BRITAIN, CONN.—Bids are asked until 3 p. m., May 16, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for construction, complete, of the U. S. post-office at New Britain.

*BUFFALO, N. Y.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., May 21, for construction, except elevators, of the U. S. Marine Hospital at Buffalo.

NEW YORK, N. Y.—Bids are asked until 11 a. m., April 20, by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, for installing heating and ventilating apparatus in Public Schools No. 3, Boro. of the Bronx, and No. 155 Boro. of Brooklyn; also for alterations, repairs, etc., to Public Schools Nos. 13, 19, 25, 35, 40, 50, 79, 140, 160, 161 and 174, Boro. of Manhattan.

*NEW YORK, N. Y.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., May 12, for the enlargement, extension, remodeling, etc., including plumbing and water supply system, etc., of the U. S. Assay Office, at New York City. The date of receiving bids for this work was erroneously given last week as May 5.

NEW YORK, N. Y.—We are officially advised that the A. V. Donelian Construction Co., 501 West 121st St., is taking estimates on a 6-story building to contain stores and tenements. It will be 35.7 × 87 ft., of brick and stone construction and will cost $50,000. Moore & Landsiedel, Third Ave. and 148th St., are Archs.

NEW YORK, N. Y.—The TURNER CONSTRUCTION CO., 11 Broadway, advises us that it has been awarded the contract for constructing six floors, roof and interior columns (of reinforced concrete) for a stable for the American Transfer Co., at 22 Little West Twelfth St., New York. John M. Baker, 859 Borden Ave., Long Island City, is Arch. The building will be 52 × 85 ft. Work will be started immediately.

We are officially advised that the Century Investment and the Battery Place Realty Companies will erect a 36-story office building on the premises at 4 to 14 West St., 6 to 18 Washington St. and 17 Battery Pl., from plans by Clinton & Russell, Archs., 32 Nassau St. It will cost $4,600,000. It will adjoin the Whitehall Building, also owned by the above companies, and which is 22 stories high. The proposed structure will be connected with the Whitehall Building by a court. It will front 206.3 ft. on West St. and 219.5 ft. on Washington St. The design will be of renaissance type of brick, with trimmings of granite and terra cota. There will be a central tower structure, 95½ × 94.3 ft., rising to a height of 36 stories, or 446.9 ft., and flanked by east and west wings, facing respectively on West and on Washington Sts. The east wing will be 16 stories and the west wing 31 stories high. The tower will have a low peaked dome, with an ornamental balustrade, with an arch in the middle of the span. The building will be equipped with 30 elevators, four of which will be continuous express to the 36th story, seven express to the 30th story and the remainder will be for service to the 16th floor. Wm. H. Cheseborough, 111 Broadway, is Pres. of the companies interested.

NEW YORK, N Y.—We have been officially informed that JOHN DOWNEY, 440 West 34th St., has the contract to erect the proposed addition to Hotel Astor, Broadway and 44th and 45th Sts. The addition will be 200 × 150 ft. and will be erected immediately in the rear of the present building. It will contain 1,000 bedchambers and 700 baths, with an auditorium on the ground floor. Clinton & Russell, 32 Nassau St., are Archs.

Plans have been filed for a 7-story brick and store office building to be erected at Madison Ave. and Forty-first St., and to cost $75,000. It will be built by the Madison Ave. & 41st St. Co., 47 West 34th St., and will measure 48 × 64.7 ft. Joseph F. Taft, 500 Fifth ave., is Arch.

NEW YORK, N. Y.—We are officially advised that A. & W. GRAY & CO., 237 West 37th St., have the contract to construct a 6-story brick and stone store and loft building, 50 × 98.9 ft., at 439 West 41st St., for Sharlow Bros., 442 West 42d St. Estimated cost, $60,000. There will be an extension to 42d St. to cost about $6,000, for which estimates are being taken. J. Henry Eames is Arch., 500 Fifth Ave.

Renwick, Aspinwall & Tucker, Archs., 320 Fifth Ave., advise us that C. T. WILLS, Inc., 156 Fifth Ave., has the contract to construct a 4-story brick and stone office building for the Provident Loan Society of New York, 105 East 22d St. The structure will be built at 344 Fourth Ave., and will cost about $100,000.

We are officially informed that the Fleischman Co., 701 Washington St., will erect a loft building at 142 Perry St., to cost about $60,000. It will be built of brick and stone, will have five stories and will be 42.1 × 97.7 ft. Arthur M. Duncan, 15 William St., is Arch.

NEW YORK, N. Y.—The following bids were received April 6, by C. B. J. Synder, Supt. School Bldgs., Board of Education, for installing heating and ventilating apparatus in Public Schools (a) No. 24, Brooklyn; (b) No. 154, Brooklyn; (c) No. 16, the Bronx; (d) No. 17, Manhattan; E. Rutzler & Co., 127 White St., (a) $32,714; (b) $31,200, (d) $49,781; R. J. Sovereign & Co., 63 Fifth Ave., (a) $34,000; Blake & Williams, 211 West 20th St., (a) $38,655, (b) $30,137, (d) $56,840; Gillis & Geoghegan, 537 West Broadway, (a) $28,798, (b) $28,297, (d) $44,989; Frank Dobson Co., Inc., 319 East 53d St., (a) $30,822, (b) $29,940, (d) $49,681; H. L. Phelp (b) $26,791; James Curran Mfg. Co., 512 West 36th St., (b) $28,838, (d) $46,946; W. Jackson, (c) $9,264; Commercial Construction Co., 114 West 28th St., (c) $8,793; Griffin & Co., 116 Nassau St., (c) $9,448; A. Feldman Construction Co., Bible House, (c) $7,250; Ries & O'Donovan, Inc., 1123 Broadway, (c) $9,740; John Hawkins & Bro., (d) $51,487; Raisler Heating Co., 1966 Broadway, (d) $48,859; Daniel J. Rice, 5 East 42d St., (d) $56,952; Baker, Smith & Co., 83 West Houston St., (d) $48,646.

CORNING, N. Y.—Bids were received as follows April 4, at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office building at Corning, N. Y.: Conners Bros. Co., 159 Plain St., Lowell, Mass., $52,200; F. W. Carlin Construction Co., Washington St., Brooklyn, N. Y., $61,840; twelve months; Henry Shenk Co., Erie, Pa., $52,933; Hermann Probst, 10 West 29th St., New York, $53,970, no time stated; O'Connell & Hanna, 271 West 125th St., New York, $52,940, nine months; George Sykes, 1123 Broadway, New York, $50,700, Jan. 1, 1909; William R. Compton Realty & Building Co., Elmira, N. Y., $52,774; Borning Bldg. Co., Corning, N. Y., $50,880, 16 months; Freuchtel-Scheurman Co., Saginaw, Mich., $48,948; W. H. Fissell & Co., New York, $52,990; C. V. Beatty & Co., East Liverpool, Ohio, $54,688; Murray Contracting Co., 3604 Broadway, New York, $53,000, 250 days; R. Richards & Son, Utica, N. Y., $50,555; Alfred E. Badgeley, Binghamton, N. Y., $49,937.

ROCHESTER, N. Y.—Bids are asked until April 15 by the Board of Education for erecting a school, No. 26, on Clifford St. Probable cost, $75,000. J. Foster Warner, Arch., 1036 Granite Bldg.; J. S. Mullin is Secy. Bd.

AUBURN, N. Y.—The Masonic Temple Association, Auburn, is having plans prepared by Edward G. Cooper, Clarendon Bldg., Utica, for a 4-story, press brick building, 80 × 115 ft. Bids will be received by B. A. Skeel, Secy. Bd. of Trustees. Estimated cost, $65,000.

MORRISVILLE, N. Y.—The Madison County Commissioners will receive competitive designs for preparing plans and superintending the construction of a court-house to cost not over $150,000. Architect will be retained later.

SYRACUSE, N. Y.—The R. T. FORD CO., 200 South Ave., Rochester, N. Y., has been awarded the contract by the State Fair Commission, for constructing the Manufacturers and Liberal Arts Building on the State Fair Grounds, Syracuse, N. Y. The contract price is $296,000. Green & Wicks, 110 Franklin St., Buffalo, are Archs.

Bids will be received at once by Archimedes Russell & Melvin L. King, Archs., 602 Snow Bldg., Syracuse, for a 5-story press brick main building, 56 × 224 ft., a 2-story chapel, 65 × 40 ft., and a 1-story laundry and store building for the House of Providence, St. Vincent's Sisterhood. Cost, $100,000.

ALBANY, N. Y.—The Commission on New Prisons will select an architect about May 1 for the state prison, to be built in this city at a cost of $2,000,000. Geo. McLaughlin is Secy.

CAMDEN, N. J.—We are advised by E. B. Temple, Asst. Ch. Engr., Pennsylvania R. R. Co., Philadelphia, Pa., that the company is endeavoring to make satisfactory arrangements with the City of Camden for certain features of construction work in the city in which the proposed station is involved. It is the intention to build the structure on Broadway.

CAMDEN, N. J.—Howes & Morse, Archs., 19 West 38th St., New York, advise us that they will have plans ready for estimates for the proposed Y. M. C. A. building here, about April 15. The structure will be built of brick and stone, will have five stories and will cost about $140,000. Ira E. Lute is Gen. Secy. Y. M. C. A., Camden. J. G. Jeffries, 216 South Fifth St., Camden, is Associate Arch.

*WILKES-BARRE, PA.—Bids are asked by James M. Norres, County Controller of Luzerne County, Wilkes-Barre, until noon, May 14, for doing the decorative work in the interior of the new court-house building in the city of Wilkes-Barre, Luzerne County, consisting of painting and decorating the plaster surfaces, furnishing and installing the Venetian glass, leaded glass, mosaic work and other work described in the specifications on file in the Commissioners' Office of Luzerne County. The County Commissioners have appropriated the sum of $75,000 for such work.

HAZLETON, PA.—Bids were received as follows, April 6, at the office of the Superv. Arch. of the Treasury, Washington, D. C., for the construction of a post-office building at Hazleton, Pa.:

Robt. H. Rathbun, Allentown, Pa., $46,882, Aug. 1, 1909; W. O. Weaver & Son, 14 South Second St., Harrisburg, Pa., $47,987; Chas. H. Knelley, Hazleton, Pa., $79,300, 365 working days; Connors Bros. Co., 159 Plain St., Lowell, Mass., $51,754; Hugh L. Campbell, Hazleton, Pa., $57,945, Sept. 15, 1909; C. V. Beatty, East Liverpool, Ohio, $51,688; D. J. Carlin Construction Co., New York, $53,836, 12 months; George H. Meinholz, Reading, Pa., $55,556, 17 months; William F. Holding, New York, $58,900; Herbert L. Havens, Girard Bldg., Philadelphia, Pa., $49,771; M. P. Wells, Philadelphia, Pa., $49,500, 240 working days; William Krug, Berwick, Pa., $76,143; J. E. & A. L. Pennock, Philadelphia, Pa., $52,800; W. H. Fissell & Co., New York, $50,930; Blackstaff Engineer-

ing Co., Philadelphia, $43,912; Andrew Breslin, Summit Hill, Pa., $63,892, Aug. 15, 1900; Washburne Williams & Co., Scranton, Pa., $59,039, Oct. 1, 1900.

PHILADELPHIA, PA.—The report published in the issue of March 26 that plans are being prepared for a freight station, 250 ft. square, to be erected on the block bounded by Eighth, Darien, Willow and Noble Sts., for the Philadelphia & Reading Ry. Co., is contradicted by William Hunter, Ch. Engr., P. & R.

PHILADELPHIA, PA. — WILLIAM STEELE & SONS CO., 1000 Arch St., has contract to build a 2-story brick, terra cotta and concrete store building at 1528 Chestnut street for George B. Wilson. It will measure 37.10 × 231 ft., and will cost $65,000. Provision will be made for additional stories. The building will occupy the site of the old Hollingsworth mansion.

WAWA, PA.—JAMES B. FLOUNDERS, of Media, Pa., has been awarded the contract for the erection of the Girls' House of Refuge, near Wawa, for $90,000. The buildings, three in number, will be of stone, each 80 × 40 ft., and two stories in height, each containing 40 rooms, with workrooms in the basements.

INDIANA, PA.—The HYDE MURPHY CO., of Ridgway, Pa., has been awarded the contract for the erection of the proposed high school building at Indiana, Pa. The cost will be about $100,000 and the plans call for solid brick building 93 × 143 ft., three stories high, containing 16 rooms.

*WASHINGTON, D. C.—Bids are asked until noon, April 25, by Elliott Woods, Supt., U. S. Capitol Bldg. and Grounds, for all metal staircases and two elevator enclosures in the Office Building, U. S. Senate, Washington.

WASHINGTON, D. C.—Bids were opened privately at the office of John Barrett, Ch. of the International Bureau of American Republics, Washington, D. C., on March 27, for the construction of a building for the Bureau to be erected at the corner of B and 17th Sts., N. W. The contract has been awarded to NORCROSS BROS., 10 East Worcester St., Worcester, Mass., whose bid was the most satisfactory of the twelve bids received. The building is to be built of marble and the architecture will be of the Latin-American order. Its most notable features will be a large Spanish patio, more than 50 ft. square; a reading room, 100 × 60 ft., and an assembly chamber, 100 × 70 ft., to be used for international conventions, receptions, etc. Much of the decorative finishings of the interior will be of the rare woods of the South American forests. At the main entrance will be two heroic marble figures symbolizing North and South America. The contract calls for completion in 15 months. The price was not made public.

WHEELING, W. VA.—The plans prepared by Giesey & Farris, Archs., Masonic Temple, this city, for the proposed $100,000 Y. M. C. A. building have been accepted by the Building Committee, and the architects are ready for bids on the construction. The structure will be of brick and steel construction, four stories in height, and will be equipped with a central steam heating and lighting plant.

BIRMINGHAM, ALA.—W. H. Woodward will erect a 16-story steel frame building on First Ave., adjoining and forming part of the Brown-Marx office building at the corner of First Ave. and 20th St. W. C. Weston, First National Bank Bldg., is Arch., and the contract for the construction work has been awarded to JOHN GRIFFITH & SONS, 135 Adams St., Chicago, Ill.

NEW ORLEANS, LA.—We are officially advised that the GENERAL SUPPLY & CONSTRUCTION CO., 43 West 34th St., New York, N. Y., has the general contract to construct the proposed hotel here for the Audubon Hotel Co., W. M. Smith, Pres. The FERRO-CONCRETE CONSTRUCTION CO., Richmond and Harriet Sts., Cincinnati, Ohio, has contract at $54,500 for foundation, concrete and waterproofing. The structure will be 15 stories high; 163 × 320 ft., and of stone, terra cotta and steel frame construction. Frank M. Andrews & Co., Waldorf-Astoria Hotel, New York, N. Y., are Archs. Estimated cost, $1,500,000.

MEMPHIS, TENN.—OLSEN & LESH, Royal Bldg., have secured the contract to erect the Jefferson Theater on Madison Ave., for the Madison Ave. Theater Bldg. Co., it is stated. The cost will be about $100,000. John Gaisford, Randolph Bldg., is Arch.

*MASSILLON, OHIO.—Plans, specifications and estimates of costs are invited until noon, April 20, by the Board of Public Service of the City of Massillon for a proposed building to be erected in the City of Massillon for the use of city officers. The building is to be 70 × 120 ft., two stories high, fireproof, of modern design, equipped with heating apparatus, and to cost not more than $45,000. G. G. Paul is Clerk.

BUCYRUS, OHIO.—Bids are asked by the Building Commission of Crawford County until noon, April 27, for alterations and improvements to the court-house. Cost, about $80,000. Harlan Jones, Mansfield, Ohio, is Arch.; J. I. Smith is County Audr.

LAPORTE, IND.—Plans for a new $75,000 jail to be erected in this city have been approved by the State Board of Charities, and bids will be advertised for at once. Beers & Beers, Orchestra Bldg., Chicago, are Archs.

MADISON, IND.—The Commissioners appointed to build the South Eastern Indiana Hospital for the Insane near Madison, have decided to ask for bids at once. Bids will be received at Room 9, State House. E. Finman, G. A. H. Shidler and S. E. Smith are Comrs.

INDIANAPOLIS, IND.—The contract for construction of the Y. W. C. A. building on North Pennsylvania St. has been awarded to A. VON SPEEKELSON, North St. and Highland Ave., Indianapolis, at $80,200.

KALAMAZOO, MICH.—Plans are wanted by the Board of Education until April 16 for a brick and stone school building, to cost approximately $85,000. The Board will also receive competitive sketches until April 16 for an 8-room addition to the Woodward Ave. school.

DETROIT, MICH.—H. A. Walsh, Arch., Lennox Bldg., Cleveland, Ohio, has completed plans for the 2-story monastery and chapel to be built for the Monastery of the Blessed Sacrament for the Cloistered Dominican Nuns, Detroit. Cost, $200,000.

Plans are being prepared by Cram, Goodhue & Ferguson, Archs., 15 Beacon St., Boston, Mass., for a cathedral to be built by the St. Paul's Protestant Episcopal congregation, Rev. S. S. Marquis, 40 Erskine St., Detroit, Rector.

CHICAGO, ILL.—Plans are being prepared by D. H. Perkins, Arch., Bd. of Education, 143 Dearborn St., Chicago, for a 20-room school building to be erected at 42d St. and West End Ave., to be known as the Tilton School. Cost $200,000.

J. E. O. Pridmore, Arch., 164 Dearborn St., has let carpenter contract to OLSON BROS., 6501 Peoria St., for a 4-story theater building, 85 × 150 ft., of press brick, stone and terra cotta, to be built at 62d and Halsted Sts., for the Englewood Stock Co. M. Clifford is interested. Cost, $100,000.

Lonek & Houda, Archs., 145 LaSalle St., have awarded the general contract for 18 flat buildings, at 41st Ave. and 21st St., to FRANK KOSATKA, 924 West 13th St. Cost, $97,000.

CHICAGO, ILL.—Bids will be received by C. A. Eckstorm, Arch., 131 LaSalle St., for construction of a warehouse building at Erie and Roberts Sts., for Sprague, Warner & Co., 7 Randolph St. The structure will have seven stories and will be 100 × 200 ft. Estimated cost, $150,000.

URBANA, ILL.—Plans are being prepared by W. Carbys Zimmerman, 1101 Steinway Hall, Chicago, for a physics laboratory, to cost $250,000, and an addition to the Natural History building, to cost about $150,000, for the University of Illinois. E. J. James, Pres.

MUSCATINE, IOWA. — BARTLETT & KLING, Inc., Cedar Rapids, Iowa, advise us that they have been awarded contract to build a 5-story reinforced concrete office building and bank at Muscatine for the Hershey State Bank, to cost about $100,000. This contract includes the installation of two passenger elevators, mail chute, the bank fixtures, a vacuum system of heating and power plant for the furnishing of electricity for elevators, and lighting proposition.

NORTHFIELD, MINN.—We are informed by Thorl, Allen & Fisher, Archs., Chamber of Commerce Bldg., St. Paul, Minn., that they are preparing plans for a 3-story pressed brick and cut stone women's dormitory for St. Olaf's Colege, Northfield. It will have a frontage of 210 ft. and two wings running back 111 ft. Prof. P. Schmidt, St. Olaf's College, is Secy. of the Bldg Com. Cost, $70,000.

ST. PAUL MINN.—The City and County Board of Control, O. J. Tong, Secy., has awarded the contract for the general construction of the 4-story pressed brick and cut stone fireproof wing to the City hospital to INGEMANN BROS., 1930 St. Anthony Ave. Their bid was $104,000. Bids will be received soon for plumbing, heating and electric lighting. C. H. Johnson, Manhattan Bldg., St. Paul., is Arch.

MITCHELL, S. DAK.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office building at Mitchell, S. Dak., to MOORE & DANNER, Kokomo, Ind., at $75,300; time, Aug. 1, 1909.

ST. LOUIS, MO.—Plans are being prepared by V. J. Klutho, Arch., Benoist Bldg., for a 3 and 4-story addition to the Notre Dame Convent in St. Louis County. Cost, $175,000.

ST. LOUIS, MO.—Plans are being prepared by Barnett, Haynes & Barnett, Archs., Frisco Bldg., for a 14-story hotel for J. J. Ryan, 3909 Fairfax Ave. Cost, $300,000.

Work on the proposed coliseum to be built at the corner of Washington and Jefferson Aves. will begin in a few days, or as soon as the site has been cleared. The coliseum will have stores on the three frontages, will cost about $275,000, and will be owned by the St. Louis Coliseum Co. The company intends to complete the building by Oct. 1. The plans were prepared by F. C. Bonsack, Columbia, Bldg., and the construction will be done by the C. L. GRAY CONSTRUCTION CO. It is being erected under the auspices of the Business Men's League.

BREMERTON, WASH.—Bids were received on March 21, at the office of the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for three brick buildings and connecting passages for the Naval Hospital at the Puget Sound Navy Yard, Bremerton, Wash. The contract has ben let to McINNIS & REED, Lumber Exchange, Portland, Ore., at $179,489. Noted fully on March 26.

SEATTLE, WASH.—F. T. ROBERTS has been awarded the contract for building the superstructure of the 3-story building which the Inland Investment Co. is to erect at the corner of Main Ave. and Division St. The contract price is $55,000. The total cost of the building, including plumbing and lighting, will be about $77,000.

PORTLAND, ORE.—Newell & Gossett, Engrs., are drawing plans for the grounds and buildings of the Country Club and Live Stock Association on the East Side. The race track will be one mile in length. Grandstand, club-house, auditorium 176 × 286 ft. of mill construction, containing ten rows of seats back of boxes. Eight stables for race horses, five for show horses and three cattle barns will be erected. About $100,000 will be expended in buildings and $25,000 in grading and outside improvements. The property consists of 83 acres beyond Rose City Park.

LOS ANGELES, CAL.—Bids were received as follows April 2 at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the installation of the plumbing in the Los Angeles post-office: Blume & Jay Co., 514 East Ninth St., Los Angeles, $46,000; James W. Hellman, 161 North Spring St., Los Angeles, $36,806; Newell Bros., 218 West First St., Los Angeles, $46,316; G. A. Kees Domestic Engineering Co., St. Paul, $51,900; J. Looney, San Francisco, $54,274; Thomas Haverty & Co., 517 South Los Angeles St., Los Angeles, $45,500; Hurley & Co., St. Paul, $57,535; P. Macey Co., Chicago, $49,547; George H. Soffel Co., Pittsburg, $56,950; Foley Bros. & Co., Indianapolis, Ind., $66,256.

The plans of Parkinson & Bergstrum, Union Trust Bldg., for the club house for the Friday Morning Club, which is to be erected on Adams St., have been accepted by the Building Committee, it is reported. The building will cost about $100,000.

*WHIPPLE BARRACKS (Prescott post-office), ARIZ.—Bids are asked by Capt. Charles C. Walcutt, Acting Q. M., Prescott, until 10.30 a. m., May 8, for furnishing and placing door and window screens in 20 buildings at this post.

MONTREAL, QUE.—J. S. Paynter, Arch., Montreal, has prepared plans for new buildings to be erected this season on Frontenac St. by the Canadian Pacific Ry. Co., at a cost of nearly $2,000,000. E. P. Gutelius is Asst. Ch. Engr., Montreal.

COQUITLAM, B. C.—Competitive plans will be called for by Hon. E. J. Fulton, Ch. Comr. of Lands and Works, Victoria, B. C., for a series of buildings to be erected at Coquitlam Farm for the Insane.

VANCOUVER, B. C.—The Imperial Trust Co. will commence construction soon on a 13-story steel office building. Estimated cost, $400,000. J. W. Weart is Managing Dir.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

LAWRENCE, MASS.—Arthur D. Marble, City Engr., has estimated the cost of covering one section of the old filter at $50,000.

PEPPERELL, MASS.—The town has voted to spend $120,000 for the installation of a water system.

HARTFORD, CONN.—An additional source of supply, a new supply main at least 36 ins. in diameter from the present source, and a number of 16- to 12-in. distributing mains are recommended by the Committee on Fire Prevention of the National Board of Fire Underwriters, George W. Hoyt, Chn., 135 William St., New York.

*OSWEGO, N. Y.—Bids are asked by the Dept. of Water until noon, April 21, for furnishing one high-duty, horizontal-compound condensing, crank and fly wheel engine with a daily capacity of 5,000,000 gallons.

Bids are asked until noon, April 22, by the Water Dept. for furnishing and erecting one direct connected multi-stage centrifugal pump and steam turbine for the Lake Water extension. F. W. Ormsby is Secy. Dept.

ELMIRA, N. Y.—The Public Service Commission has authorized the Elmira Water, Light and Railway Co. to issue $372,000 of its bonds for the completion and improvement of its plant.

NEW YORK, N. Y.—Plans have been filed by the Third Ave. R. R. Co. for the construction of an auxiliary fire protection plant for the car house on Third Ave. and 66th St. The plant will be supplied by two 25,000-gallon gravity tanks and five 7,500-gallon pressure tanks. Estimated cost, $10,000.

NEW YORK, N. Y.—Bids are asked by John H. O'Brien, Comr. of Water Supply, Gas and Electricity, until 2 p. m., April 15, for furnishing, delivering and erecting four water tube boilers, with economizer, steam and auxiliary piping, feed water heaters and high pressure drip return system, and all foundations, with their appurtenances, complete, in the boiler room of the 179th St. pumping station, Borough of Manhattan.

NEW YORK, N. Y.—Specifications of interest to manufacturers are on file at office of Engineering News, New York, for waterworks material for a plant to be installed abroad. For further details communicate with the C. I. F. Co., 11 Broadway. A. M. Fisher, Pres.

RAHWAY, N. J.—The U. S. CAST IRON PIPE & FOUNDRY CO., 71 Broadway, New York, has been awarded the contract by the Water-Works Department for 4 and 6-in. pipe, at $23.70 per ton, 2½ cts. per lb. for specials.

HOLLIDAYSBURG, PA.—Bids are asked by M. W. Brown, Secy. of the Directors of the Poor of Blair County, until 1 p. m., April 21, for digging and filling about 2½ miles of trench for a water line to be built at the County Home from Spring Meadow to the Carson Valley Road.

WASHINGTON, D. C.—The sum of $10,000 has been appropriated by the Commissioners, District of Columbia, for preliminary investigation and surveys for increasing the water supply. Henry B. F. Macfarland is Chn. Comrs.

HAMBLETON, W. VA.—The Hambleton Water Co., Hambleton, has been incorporated to construct a waterworks plant in Hambleton, Hendricks, and Parsons, W. Va. Capital stock, $50,000. C. A. Roberts, Hambleton, is interested.

CHARLESTON, S. C.—Bids are asked until April 13 by J. H. Dingle, City Engr., for furnishing and laying 3,000 ft. 3-in. and 4-in. c.-i. pipe and appurtenances in Calhoun St., and for furnishing, setting up and connecting fountain at Rutledge Ave. and Calhoun St.

BARNESVILLE, GA.—The city has voted $9,000 for enlarging the water and electric-light plant.

MOULTRIE, GA.—The city has voted $45,000 bonds to enlarge the water-works system.

RUSTON, LA.—The city has voted $50,000 of bonds to improve the water-works and electric-light plants.

NEW ORLEANS, LA.—Bids are asked by Henry McCall, Custodian, until 2 p. m., April 20, for new water ta[illegible], etc., at the United States Custom-House and Post-Office.

CLARKSVILLE, TENN.—[illegible]OBOROUGH & CO., Memphis, Tenn., ha[illegible] been awarded the contract for installing a water plant at the Odd Fellows Home.

NORWOOD, OHIO.—Bids are asked until April 25 by the Board of P[illegible] Service for furnishing and delivering [illegible]-in. water meters and connections. H. [illegible] Armstrong is Clk Bd.

MARTIN'S FERRY, OHIO.—[illegible] Board of Public Service has awarded [illegible]TON TALBOT, of Martin's Ferry, [illegible] contract for constructing the water main [illegible] North Fifth St.

WASHINGTON, IOWA.—T[illegible] City Council on March 24 awarded the co[illegible] for sinking a well from 1,800 to 2,[illegible] deep and 12 ins. diameter, to C. P. [illegible]NT, of Indianapolis, Ind., at $5,950, [illegible] $8,050, respectively.

LAKE CITY, IOWA.—Bids [illegible] asked until noon, April 22, by the Supe[illegible]rs of Calhoun County, for the constru[illegible] of a tile drain in Calhoun, Logan, Lake [illegible]k, Greenfield and Union Townships. [illegible] E. Stonebraker is County Audr.

ALBERT LEA, MINN.—Bids are asked by the city until April 13 for 727 ft. 8-in. and 1,554 ft. 6-in. water mains and four fire hydrants.

ST. PAUL, MINN.—Bids are asked until April 13 by the Board of Water Commissioners for constructing a steel standpipe, 20 ft. in diameter, 40 ft. in height, in St. Anthony Park North. John Caufield is Secy. Bd.

FRANKFORT, KAN.—Contracts for constructing water-works have been awarded as follows: To G. GAEGER, of Rock Hill, Mo., for general construction of system, $11,552; E. C. DUNHAM, of Frankfort, Fairbanks-Morse gasoline engine, 30 HP., $1,095; MIDLAND BRIDGE CO., tower and tank, $1,003; U. S. CAST IRON PIPE & FOUNDRY CO., 71 Broadway, New York, pipe for mains, $28 per ton; WESTERN VALVE CO., hydrants and valves, $1,121.

TOPEKA, KAN.—The Board of Water Trustees has awarded the contract to DUNFORD BROS., of Topeka, for constructing a 4,000-ft. ditch in which the 18-ft. main from the water works will be laid.

GRAND ISLAND, NEB.—Andrew Rosewater, Omaha, Neb., is preparing plans for improving the water system. Estimated cost, $75,000.

BELLE FOURCHE, S. DAK.—The contract has been awarded to J. E. HILTON, of Vale, S. Dak., for constructing a portion of the south canal, Belle Fourche irrigation project, S. Dak., at $28,241. The contract involves the excavation of, approximately, 160,000 cu. yds. of material, and according to the terms of the contract it is to be completed by March 1, 1909.

HAMILTON, MONT.—Bids are asked until April 15 by the Bitter Root Valley Irrigation Co., L. E. Wolgemuth, Gen. Mgr., for furnishing material and constructing about 35 miles of irrigation canal in Ravalli County, consisting of about 800,000 cu. yds. excavation, 5,000,000 ft. B. M. timber, 8,000 lin. ft. pile driving; constructing an earth dam, with the necessary outlet gates, gate wells, etc., with about 480,000 cu. yds. puddled embankment. Bids may be submitted as a whole or in sections for the above work.

DALLAS, TEX.—C. A. Gill, Arch., has prepared plans for a pumping station at Turtle Creek, for the Municipal Commission. Estimated cost, about $20,000. J. B. Winslett is City Secy.

HOUSTON, TEX.—The Hyde Park Water Co. has been incorporated with $10,000 capital stock. J. C. Hutcheson is interested.

FAIR PLAY, COLO.—Bids are asked until April 13, by the Antero & Lost Park Reservoir Co., Denver, Colo., for the construction of a reservoir in Middle Park, near Fair Play. The dam is to be of dirt, with a reinforced concrete face, 36 ft. at the highest point, and 4,000 ft. long. About 4,000 acres will be covered by the water. This it is estimated, will hold about 2,200,000,000 cu. ft. of water, or about 50,000 acre ft. Approximate quantities: 490,000 cu. yds. earth, 8,300 cu. yds. riprap, 3,400 cu. yds. concrete facing, 1,200 cu. yds. concrete headgate. H. G. Clark, Denver, is Pres., George A. Starbird, Denver, is Engr.

BREMERTON, WASH.—The U. S. Engineering Dept. is preparing plans for a system of water supply and fire protection to be installed at the magazines at Getrich Bay. The total cost will be about $16,000. The source of supply is to be from a small stream and springs on the hill back of magazines. A reservoir will be built with a capacity of 2,100,000 gallons, with intake pit and settling basin adjoining. The reservoir will be built with earth and rock embankments, and the water will be conducted through pipes to two steel tanks about 250 ft. distant, each having capacity of about 50,000 gallons. Gravity will furnish pressure for hydrants, automatic fire fighters, etc.

WALLA WALLA, WASH.—The Warm Water Irrigation Co. has filed articles of incorporation with a capital stock of $22,400. The firm will deal in water and water rights, develop artesian wells, etc. The directors are Wm. Van Patten, George E. Barnett, Francis M. Burke, John P. McCausland and Maude Barnett.

SPOKANE, WASH.—All bids opened on March 24 by the Board of Public Works for erecting a standpipe in Manito Park District have been rejected. The following are the bids received: Bailey & Co., Wenatchee, Wash., $12,000; National Iron Works, $7,977; Union Iron Works $10,500; Washington Boiler Works, $10,000; Minnesota Machinery & Steel Co., $9,500; William Oliver, $8,600. New bids will be asked. J. C. Ralston is City Engr.

PORTLAND, ORE.—The lowest bid opened on March 26 by the Water Board for the construction of a reservoir on Portland Heights was that of Giebisch & Joplin, at $8,933. Douglas W. Taylor is City Engr.

SALT LAKE CITY, UTAH.—Articles of incorporation of the Oasis Land and Irrigation Co. were filed on March 19, in the office of the County Clerk, with a capitalization of $900,000. James J. Chambers, Salt Lake City, is Pres.; A. M. Trader, Salt Lake City, is Secy. and Treas.

CALDWELL, IDAHO.—Bids are asked until April 15 by the Payette-Boise Water Users' Association, J. H. Lowell, Pres., for constructing the following laterals: Upper 14 miles of Kuna high line, except Divisions 57, 58, 60, 61, 62, 63, 64, 65, 66; upper eight miles of Deer Flat north; upper seven miles of Deer Flat, low line; upper nine miles of Deer Flat, Caldwell.

MONTREAL, CAN.—Bids are asked by L. O. David, City Clerk, until noon, April 14, for 8,000 lin. ft. of 30-in. cast-iron water piping.

GUELPH, ONT.—Bids are asked until Apr. 20, by J. J. Hackney, Mgr. Guelph Waterworks, for supplying about 21,000 ft. of salt glazed water pipe for a water conduit. Specifications are on file.

CLINTON, ONT.—Bids are asked until 6 p. m., April 15, by D. L. MacPherson, Town Clk., for drilling an 8-in. test well for the water-works system.

PRINCE ALBERT, ONT.—Bids are asked by the Town until April 16 for cast iron and specials. F. A. Creighton is City Engr.; C. O. Davidson is City Clk.

PORTAGE LA PRAIRIE, MAN.—Bids are asked until April 13 for pumping machinery, water pipes, etc., for the city of Portage La Prairie. F. W. Clayton is Secy.-Treas.; Willis Chapman is Engr.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

NORWOOD, MASS.—Lewis D. Thorpe, Civil and Hydraulic Engr., Cornhill Bldg., Boston, Mass., advises us that the following bids have been received by the town for (a) the construction of Section No. 1 of the sewer system and (b) the construction of Section No. 2, all material except vitrified and cast-iron pipe, branches, cement, sulphur and castings to be furnished by contractor: MOORE & CO., Boston, Mass., (a) $37,353 (awarded contract); CRAIB & CO. Winthrop, Mass., (a) $38,527; (b) $30,186 (awarded contract); Trumble & Co., (a) $39,075, (b) $33,226; J. E. Palmer, (a) $39,850, (b) $33,550; M. McDonough, (a) $40,945; Bryne Contracting Co., (b) $35,095; Donovan & Philips, (a) $40,972; Long & Little, (a) $41,649, (b) $35,739.

PAWTUCKET, R. I.—The City Council on March 25 passed a resolution providing for an appropriation of $37,000 for the construction of an extension to the Central Ave. sewer.

*WEST HARTFORD, CONN.—We are officially advised that the following bids were received on March 31 by the Board of Sewer Commissioners for the construction of the Park St. sewer system, consisting of 1,764 ft. of 15-in., 6,872 ft. of 12-in., 1,360 ft. of 10-in., 7,593 ft. of 8-in., 6,684 ft. of 6-in., 55 manholes; pipe to be of first quality, deep and wide sockets in 3-ft. lengths 15-in. pipe to be of double strength. (A) contractor furnishing pipe, (B) town furnishing pipe: HENRY SPINACH, Waterbury, Conn., (A) $25,235, (B) $19,873 (awarded contract); Pierson Engineering & Construction Co., Bristol, Conn., (A) $28,252, (B) $23,304; F. B. & W. H. O'Neil, Hartford, Conn., (A) $28,727, (B) $22,600; Hartford Paving & Construction Co., Hartford, (A) $29,017, (B) $22,222; John F. Gill Co., Boston, Mass., (A) $29,220, (B) $26,599; Charles H. Slocomb, Hartford, (A) $29,336, (B) $23,460; F. A. Foster, Boston, Mass., (A) $32,185, (B) $23,584; Ryan, Unmack & Co., New Haven, Conn., (A) $32,854, (B) $28,211; Leonardo Suzio, Meriden, Conn., (A) $33,177, (B) $27,435; F. H. Cowin Co., Boston, Mass., (A) $33,518, (B) $29,282; Dolan & Barry, Boston, Mass., (B) $31,450; A. M. Cusack, Boston, Mass., (A) $37,480, (B) $31,538; Falvey & Kelly, Dorchester, Mass., (A) $38,973, (B) $32,385; Fred T. Ley, Inc., Springfield, Mass., (A) $40,431, (B) $33,587; John McCourt & Co., Boston, Mass., (A) $40,589, (B) $34,344. A. B. Alderson is Town Engr.

NEW HAVEN, CONN.—The city on March 30 awarded the contract for the construction of a sewer in Dixwell Ave., between Willis St. and the city line, to DWYER & MANNIX, at $4,290. The other bidders were: J. B. Whitby, $6,023; Ryan & Unmack Co., $5,226.

BRONXVILLE, N. Y.—Bids are asked by Frank Densmore, Village Clk., until April 20 for constructing sewers and grading and paving.

NEW YORK, N. Y.—Bids are asked until 11 a. m., April 16, by Louis F. Haffen, Pres. Bronx Boro., for constructing a sewer and appurtenances in Albany road.

BROOKLYN, N. Y.—Bids are asked until 11 a. m., April 22, by Bird S. Coler, Boro. Pres., for furnishing all the labor and material required for constructing a sewer in 82d St., from 12th Ave. to 13th Ave., Boro. of Brooklyn.

DOVER, N. J.—Bids are asked until April 11 by the Street Committee of the Common Council for the construction of a storm water sewer. F. W. E. Mindermann is Town Clk.

*HUNTINGDON, PA.—Bids are asked until 2 p. m., April 16, by J. Murray Africa, Boro. Engr., for constructing sewers.

BUTLER, PA.—The East Oakland Land Co., which owns a large tract of land in this city, will sewer, grade and pave a number of streets in the city.

*PHILADELPHIA, PA.—Bids are asked until noon, April 22, by George R. Stearns, Dir. Public Works, for the construction of main sewers under Schedule B, as follows: Extension of Frankford Intercepting system in Wakeling St., 310 ft. of 13-ft. 6-in. diameter brick sewers; appropriation, $50,000. Extension of Cobbs Creek Intercepting sewer, 3,732 ft. of 4-ft. 9-in. diameter brick sewer; appropriation, $50,000. Jasper St. sewer, 1,168 ft. of 4-ft. diameter brick sewer; appropriation, $25,000. Extension of Oakland St. sewer, northeast of Foust St., 842 ft. of 12-ft. 9-in. diameter brick sewer, appropriation, $29,000. Extension of Jackson St. sewer, 342 ft. 6-ft. 6-in. diameter, 441 ft. of 6-ft. diameter, 438 ft. of 5-ft. 6-in. diameter, 450 ft. of 5-ft. diameter, 450 ft. of 4-ft. 6-in. diameter, and 433 ft. of 4-ft diameter brick sewers; appropriation, $45,000. Tulip St. sewer, 822 ft. of 5-ft. 6-in. diameter brick sewer; appropriation, $20,000. 64th St. sewer, 1,158 ft. of 4-ft. 6-in. diameter brick sewer; appropriation, $15,000. 69th St. sewer, 562 ft. of 5-ft. 6-in diameter and 527 ft. of 5-ft. diameter brick sewer; appropriation, $20,000. Sewer in the Boulevard from Faunce St. to Hartel St., 1,280 ft. of 13-ft. diameter brick sewer; appropriation, $55,000. Sewer across the Boulevard on line of Tyson St., 370 ft. of 7-ft. diameter brick sewer; appropriation, $35,000. Oxford Ave. sewer, across the Boulevard, 841 ft. of 5-ft diameter brick sewer; appropriation, $11,000. Oakland St. sewer, across the Boulevard, 381 ft. of 12-ft. diameter brick sewer; appropriation, $27,000.

*BALTIMORE, MD.—Bids are asked by the Board of Awards until April 29 for constructing the east low level interceptor Sections Nos. 1 and 2, erecting superstructure of sewage pumping station and constructing foundations and substructure of sewage pumping plant. Calvin M. Hendrick is Ch. Engr. Sewerage Comn.; J. Barry Mahool is Pres. Bd.

WASHINGTON, D. C.—Bids are asked until April 20 by the Commissioners District Columbia for constructing pipe sewers in the District of Columbia. Henry B. F. MacFarland is Chn. Comrs.

HOUSTON, VA.—Bids are asked until 11 a. m., April 11, by the Board of Supervisors of Halifax County, Houston, for the construction of a sewerage system for the new county jail. R. S. Barbour is Chn. Bd.

MOUNDSVILLE, W. VA.—Charles P. Collins, Consult. Engr., Philadelphia, Pa., has been commissioned to make surveys and prepare plans and estimates for a proposed sewer system to be built here this summer.

GRIFFIN, GA.—The city engaged E. H. Davis, of Griffin, to prepare plans and specifications for the construction of a sewerage system and water-works.

AUGUSTA, GA.—T. G. BRITTINGHAM of Augusta, has been awarded the contract for the construction of two miles of sewers. Nisbet Wingfield is City Engr. and Comr. Pub. Wks.

MACON, GA.—Bids are asked until May 4 for the construction of 2,000 ft. 12-in. pipe sewers. C. L. Farrar is City Clk.; C. J. Du Bois is City Engr.

LOUISVILLE, KY.—We are officially advised that bids for the construction of Section C of the southern outfall sewer were received on April 2 by the Commissioners of Sewerage as follows: American Engineering & Construction Co., Chicago, Ill., $215,913; E. G. Nave Bro. Co., Portsmouth, Ohio, $227,171; C. T. McCracken Co., Columbus, Ohio, $229,789; H. Bickel Co., Louisville, Ky., $245,267; Mason & Hanger, Frankfort, Ky., $246,114; Abadie Co., St. Louis, Mo., $255,877; C. H. Fath & Co., Cleveland, Ohio, $318,070. J. B. F. Breed is Ch. Engr. Comrs.

HOPKINSVILLE, KY.—Bids are asked by the Committee on Sewers until noon, April 10, for the construction of a brick or concrete storm sewer.

NORWALK, OHIO.—Contracts for constructing the Chatham St. and St. Mary's St. sewers were awarded on March 21 by the Board of Public Service to PENNY & CORRON, Lorain, Ohio, at $7,541 and $3,638.

CLEVELAND, OHIO.—Bids are asked until noon, April 16, by the Board of Public Service for the construction of sewers in various streets and avenues. A. R. Callow is Secy. Bd.

NILES, OHIO.—F. M. Brewer, City Engr., has completed plans and specifications for the sewers that will be built this summer in Vienna Ave., Beaver, Pearl and Seneca Sts.

JACKSON, OHIO.—THE J. A. GRIMES ENGINEERING CO., Portsmouth, Ohio, was awarded the contract on March 26 by the city for the construction of the sewerage system at $12,377.

CONNEAUT, OHIO.—The city proposes to construct 6,000 lin. ft. of sewers. T. P. Lininger is City Engr.

INDIANAPOLIS, IND.—Bids for sewer work have been received by the Board of Public Works as follows: For constructing a sewer in the first alley north of Eugene St., from Barnes Ave. to Annetta St, Sheehan Construction Co., $2.03; American Construction Co., $2.05; Indianapolis Construction Co., $1.97; A. Bruner Co., $2.20; Schauer & Roeinge, $2.15; Julius Keller Construction Co., $1.98; Pease-Buzatt Construction Co., $2.16. For constructing a sewer in the alley north of Udell St., from Barnes Ave. to a point 13 ft. west of Annetta St.: A. Bruner Co., $2.05; Pease-Buzatt Construction Co., $2.03; Henry Magg, $2; American Construction Co., $2; Schauer & Roeinger, $2.04; Sheehan Construction Co., $1.96.

MUNCIE, IND.—Plans have been ordered by the city for the construction of a storm sewer from Kilgrave Ave. to Beech Grove Cemetery.

SIOUX CITY, IOWA.—The contract for constructing a sewer on 29th St. has been awarded to CADY & McLAUGHLIN by the City Council at 64 cts. per ft. and $39.50 for manholes.

MINNEAPOLIS, MINN.—The City Council on March 27 ordered the construction of sewers estimated to cost about $127,000.

DULUTH, MINN.—The following are the bids opened on March 27 by the Board of Public Works for the construction of the trunk sewer in Elinor St. and Grand and 49th Aves.: George R. King, $14,620; E. Engle, $17,718; J. A. Johnson, $15,264; HUGH STEELE, $13,653 (awarded contract); P. McDonnell, $15,477. R. Murchison is Clk. Bd.

NORFOLK, NEB.—Bids are asked by C. B. Durand, Mayor, and the City Council until 6 p. m., April 16, for the construction of lateral sewers. Julius Huff is City Clk.

JEFFERSON CITY, MO.—E. F. C. Harding, City Engr., is preparing plans for the construction of several district sewer systems.

EXCELSIOR SPRINGS, MO.—The City Council on March 26 awarded the contract for laying sewer mains in District No. 39 to J. J. WILLIAMS of Kansas City, Mo., at $3,841.

BRIDGEPORT, WASH.—The Bridgeport Land Co. has been formed with a capital stock of $100,000 to irrigate the Port Columbia bar, a section of land lying two miles below Bridgeport. It comprises 4,000 acres. The company is composed of J. B. Valentile, Spokane, Wash.; William Kryger, C. M. Phoenis and C. Ingham. The ditch will be seven miles in length. A huge pumping plant will be installed and water taken from the Columbia River.

OAKLAND, CAL.—Bids are asked by the Board of Public Works until 11 a. m., April 22, for the completion of the construction of an outlet sewer on Webster St., from Second St. to the U. S. Pierhead line. F. C. Turner is City Engr.

BRANTFORD, ONT.—Bids are asked until noon, April 23, by Samuel Suddaby, Chn. Bd. Pub. Wks., addressed in care of the City Clerk, for sewer pipe that may be required by the city during 1908. T. Harry Jones is City Engr.

GARBAGE DISPOSAL.

HARTFORD, CONN.—Bids were opened on April 3 by the Board of Contract and Supply for the removal of ashes and garbage for a term of five years, as follows: Garbage, Edward Balf Co., $17,500 per year; Thomas Stafford Co., $11,540 per year. Ashes, Edward Balf Co., from sidewalk, rear of house and cellar, respectively, $23,700, $36,420, $38,785; Thomas Stafford Co., $17,940, $21,124, $22,184. The bids were referred to the Street Board for consideration.

NEW YORK, N. Y.—Bids are asked by Foster Crowell, Comr. Street Cleaning, until April 13, for furnishing and delivering parts for Charles Hvass Co.'s sweeping machine.

SOUTH ORANGE, N. J.—Bids are asked by the Board Village Trustees, until April 20, for the collection and disposal of garbage, ashes and rubbish of the village. M. A. Fitzsimmons is Village Clk.

WASHINGTON, D. C.—Bids are asked until 2 p. m., April 15, by M. R. Thorp, Ch. Supply Division, War Dept., Washington, D. C., for hauling ashes during the year ending June 30, 1909.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

FALL RIVER, MASS.—The following bids were received on April 1 by the Superintendent of Streets for laying granolithic sidewalks for the year. J. T. Edwardson, $1.37¼ per yd.; James A. Donnelly, $1.51½ per yd.; Beattie & Cornell, $1.39 per yd.

HARTFORD, CONN.—The State Highway Commissioner has received the following plans for the improvement of the State roads: From E. B. Harger, 6,000 ft. on the main road between Woodbury and Watertown; from Thomas H. Mackenzie, 10,600 ft. on the section known as the Pendleton Hill road, beginning at the Stonington town line and extending northerly.

Bids are asked by the Board of Contract and Supply, until 11 a. m., April 13, for 100,000 brick, to be used in the construction of catch basins.

NEW HAVEN, CONN.—The Paving Commission has decided to lay permanent pavements as follows: State St., from Chapel St. to Elm St.; Church St., from Chapel to George St.; Meadow St., from Congress Ave. to Water St.; State St., from Chapel to Water St. and Court St. and Center St. their entire lengths. Estimated cost, about $70,000. C. W. Kelly is City Engr.

WATERBURY, CONN.—EDWARD MCMANUS, of Waterbury, has been awarded the contract by the city for grading Waterville and Homer Sts., at $20,161.

NEW YORK, N. Y.—Bids are asked by Louis F. Haffen, Pres. Boro. Bronx, until April 22, for regulating, grading, repairing various streets and laying cement sidewalks.

FORT WOOD (New York post-office), N. Y.—We are officially advised that the General Contract Co., New Orleans, La., submitted the lowest bid on April 1 for the construction of a macadam road at this post, at $8,066.

Douglass & Hann, 188 Alabama Ave., Brooklyn, N. Y., submitted the lowest bid for constructing walks at the post, at $1,268. Capt. G. C. Burnell is Constructing Q. M., U. S. A., Fort Wood, N. Y.

NEW YORK, N. Y.—Bids are asked until 2 p. m., April 17, by John F. Ahearn, Pres. Boro. of Manhattan, for repairing and maintaining sheet asphalt pavements on the streets in the Boro. of Manhattan on which the original guarantee of maintenance has expired or will expire during the term of this contract.

BROOKLYN, N. Y.—Bids are asked until 11 a. m., April 6, by Bird S. Coler, Boro. Pres., for paving with asphalt blocks and with granite blocks on a concrete foundation the roadway of East 189th St., from Fordham Road to Southern Boulevard, and setting curb where necessary.

RIDGEWOOD, N. J.—Bids are asked by the Board of Village Trustees until 8:30 p. m., April 14, for the improvement of Hope St. J. Blauvelt Hopper is Clk. of Board.

*FREEHOLD, N. J.—Specifications are on file at the office of Engineering News, New York, for constructing a stone road extension from the avenue of Two Rivers and Rumson Road to the Sea Bright Bridge. Bids are asked until April 13.

ATLANTIC CITY, N. J.—Bids are asked by the City Council, until 8:30 p. m., April 13, for paving Virginia and South Carolina Aves. Walter J. Buzby is Chn. St. Com.

HAZLETON, PA.—It is proposed to construct about 16,000 sq. yds. of vitrified brick, at an estimated cost of $60,000. B. E. Youngman is City Engr.

WASHINGTON, PA.—The Council has awarded the contract for paving Morgan Ave. with vitrified brick to WILLIAM PICKETT & CO., of Washington.

*ALTOONA, PA.—Bids are asked by the Board of Public Works until 8 p. m., April 16, for grading and paving with vitrified brick, on concrete foundation, and maintenance, under the several ordinances passed and approved, together with the setting and resetting of curbing where required, various highways in the city. George W. Kuebler is Chn. Board.

CALIFORNIA, PA.—Bids are asked by the Borough Council until 6:30 p. m., April 15, for grading, curbing and paving College Ave. with vitrified brick.

SCRANTON, PA.—The contract for paving Capouse Ave., from Ash St. to Green St., was awarded on April 1, by the city, to LEE & McDONALD, at $2.45 per sq. yd.

CLEARFIELD, PA.—The contract for constructing 8,000 ft. of State road in Lawrence Township was awarded on March 25 to W. B. HUGHES, at $21,000.

BALTIMORE, MD.—P. FLANIGAN & SONS, Lexington and Calvert Sts., Baltimore, have been awarded the contract for paving Monroe St. with Belgian blocks, between Baltimore & Ohio R. R. tracks and Columbia Ave., at $31,479.

F. E. SCHNEIDER & CO., 332 Law Bldg., Baltimore, secured the contract for paving Lakewood Ave., between Canton and Eastern Aves., with vitrified brick, at $4,525.

ELLICOTT CITY, MD.—Bids are asked until noon, April 14, by the County Commissioners, for improving the public highway between Florence and Lisbon. W. Hunt Mayfield is Clk. Comrs.

WASHINGTON, D. C.—The Cranford Paving Co., Washington, has been recommended by Maj. J. J. Morrow, Engr. Comr. D. C., for award of contract for paving and grading First St., N. E., between H St. and Florida Ave.

PETERSBURG, VA.—The city has appropriated $8,207 for paving the roadway of Washington St. between Sycamore and Market Sts.

NEWBERN, N. C.—The following bids were received on March 19, by the City Council, for constructing about 20 miles of granolithic sidewalks, to consist of Portland cement concrete, 1:3:6 four inches, and a wearing surface of Portland cement 1:2, one inch thick, including excavation and filling: Alsop Pierce, Newport News, Va., 83 cts. per sq. yd.; Luck Construction Co., Roanoke, Va., $1.13½ per sq. yd.; Daniel Harding, Towson, Md., $1.23½; Georgia Hydraulic Co., Dublin, Ga., $1.10; Rhoades & Underwood, Newbern, N. C., $1.14; S. S. Soudus Sons Co., Greensboro, N. C., $1.01½; Legon & Parker, Savannah, Ga., $1.10; Frank Barker, Greenwood, S. C., $1.03; Thriatt & Fullenwider, Monroe, N. C., 92½ cts.; George W. Wharton, Bellville, N. J., $1.17; Schillinger Bros., $1.02; Perkinson & Finn, Petersburg, Va., 99 cts.; Rudolph Bloome Co., Chicago, Ill., $1.09; Jari Perkins & Co., Richmond, Va., 98 7-8 cts.; J. W. Haas, Charlotte, N. C., $1.08; Bigler Bros., Bessemer, Ala., 89¾ cts.; Georgia Paving Co., Columbus, Ga., $1.03; Miller Bros., Marion, N. C., 94 cts.; W. P. Veitch, Richmond, Va., 97¾ cts.; Matthews & O'Brien, Wilmington, N. C., $1.04½; Arthur Tufts, Donald, S. C., $1.03; William E. McHugh, Springfield, Ohio, 99 cts.; McGee Concrete Co., Greenville, S. C., 89 cts.; W. J. Grantham, Greensboro, N. C., $1.08; Byam, Sanders & Co., Atlanta, Ga., 94½ cts.; Crockett Paving Co., Birmingham, Ala., 97½ cts.; Sand-Keys-Ruth Co., Norfolk, Va., $1.04; L. Lawson, Norfolk, Va., $1.01; Gwathing Engineering Co., Norfolk, Va., 91 cts.; Duffy & Patrick, Greenville, N. C., $1.12½; G. R. Hurd & Co., Monroe, Mich., $1.06¾; George W. Beisel, Monroe, Mich., 97 cts.; Southern Tile & Stone Co., Atlanta, Ga., $1; H. A. Brown, Newbern, N. C., $1.02½; Swift & Alt, St. Louis, Mo., 94 cts.; Kitson Construction Co., Norfolk, Va., $1.13; Atlas Construction Co., High Point, N. C., 96 cts.; C. Markley, Roanoke, Va., $1.07; Eureka Building Block Co., Graham, N. C., $1.24; William F. Bone, Augusta, Ga., 85 cts. F. T. Patterson is City Clk.

NEWBERRY, S. C.—BROWN & McGHEE, Greenville, S. C., have been awarded the contract at 45 cts. per ft. for paving sidewalks here.

SPARTANBURG, S. C.—J. C. ROSS, Blacksburg, S. C., has been awarded the contract for filling in 40,000 yds. road in Spartanburg County.

SAVANNAH, GA.—Bids are asked until April 24, by the Commissioner of Streets and Lanes, for furnishing, f. o. b. wharf, Savannah, about 2,000 sq. yds. No. 1 asphalt blocks, a 5 or 10-year guarantee to be included in bid. Harry Wilink is Dir. Com.

JACKSONVILLE, FLA.—The Duval County Commissioners have awarded the contract to FOSTER & LONG, Jacksonville, at 88 cts. per sq. yd., for paving the Turner road with rock, including grading and curbing.

CHATTANOOGA, TENN.—THE WEST CONSTRUCTION CO., Chattanooga, has been awarded the contract by Board of Pub-

lic Works, at $26,390, for resurfacing with asphalt about 10,334 sq. yds. on Market, Sixth and Walnut Sts., and laying about 807 sq. yds. brick gutters. Robert Hooke is City Engr.

MT. HEALTHY, OHIO.—Bids are asked until noon, April 21, by Frank Williamson, Village Clk., for the construction of cement sidewalks on both sides of Joseph St.

CLEVELAND, OHIO.—Bids are asked until noon, April 16, by A. R. Callow, Secy. Bd. Pub. Works, for grading, draining, curbing and flagging and paving with paving brick and Medina dressed block stone, and improving Eagle and Jefferson Aves.

CINCINNATI, OHIO.—The County Commissioners on March 27 awarded the contract for the improvement of the Cleves and Bridgetown pike to N. RUEBEL, at $29,320.

YOUNGSTOWN, OHIO.—JAMES McCARRON was awarded the contract on March 25 by the Board of Public Service for paving Marshall St. with brick, at $9,486.

VICTOR OLSEN was awarded the contract for brick pavement on Summit Ave., at $7,728. F. M. Stillie is City Engr.

INDIANAPOLIS, IND.—The Board of Public Works has awarded the contract to the WESTERN CONSTRUCTION CO., for the repair of the asphalt streets, at 65 cts. a sq. yd.

MICHIGAN CITY, IND.—W. H. BELL has been awarded the contract for paving Michigan and Sixth Sts. with Townsend block at $18,645 and $13,191, respectively, and Ripley St. with Poston block, at $11,082.

NEW ALBANY, IND.—Bids are asked by the Board of Public Works until April 18, for the improvement of Thomas St., from Market St. to Ekin Ave.

LANSING, MICH.—H. A. Collar, City Engr., has been authorized to prepare estimates for paving Washington Ave., south, with brick, on a gravel foundation, and on a concrete base, and for improving a portion of Grand Ave.

PEORIA, ILL.—The following bids have been received by the city for paving Lincoln Ave. with brick from Western Ave. to Bush St. D. A. MEYERS CO., $6,987, was awarded contract; J. S. Allen Co., $7,013; the Crescent Contracting Co., $7,051; John McAllister, $7,212.

ELGIN, ILL.—Bids are asked until 7 p. m., April 10, by the Park Board for grading, rolling and scraping the speedway to be constructed at Wing Park.

PEORIA, ILL.—JOHN McALLISTER was awarded the contract on March 30, by the Board Local Improvements for paving Faraday St., from South Adams to Starr Sts., with brick at $9,789.

COLLINSVILLE, ILL.—We are officially advised that the Board of Local Improvements will soon ask for bids for the construction of 65,700 sq. yds. of vitrified brick paving with concrete base, cement filler and sandstone curbing. J. L. R. Wadsworth is Pres. Board. A. C. Powell is Engr.

MARION, ILL.—The Board of Local Improvements will soon ask for bids for about 176,000 sq. yds. of brick pavement, and 7,250 lin. ft. combined curb and gutter. Hoffman & Townsend, Marion, are Engrs.-in-Charge.

MUNISING, WIS.—The contract for the construction of the highway from Halston to a point one mile south of Chatham has been awarded by Alger County to CARL HALL & CO., Duluth, Minn., at about $35,000.

TOMAH, WIS.—Bids are asked until 2 p. m., April 18, by the Commissioners of Public Works, for the construction of a brick pavement and appurtenances. D. J. Aller is City Clk.

RACINE, WIS.—An appropriation of $200,000 has been made for paving various streets and constructing sewers.

SUPERIOR, WIS.—Estimates are being prepared for paving certain portions of Grand Ave.

GREEN BAY, WIS.—Bids are asked until 10 a. m., April 23 by the City Clerk, for the improvement of various streets.

ALBERT LEA, MINN.—Bids are asked until 7:30 p. m., April 20, by the City Council, for the construction of a brick pavement with concrete foundation. C. J. Dudley is City Clk.

ST. PAUL, MINN.—Bids are asked until 10 a. m., April 13, by the County Commissioners, for the improvement of various roads. Edward G. Krahmer is County Audr.

MANHATTAN, KAN.—The city contemplates the construction of 26 blocks of cement sidewalks and 24,000 ft. of curb and gutter. H. W. Hungerford is City Clk.

FORT OMAHA (Omaha post-office), NEB.—Bids are asked in triplicate until 10 a. m., April 25, by Capt. W. H. Oury, Constructing Q. M., U. S. A., Fort Omaha, for constructing terraces, macadam roads, gutters, etc.

ST. LOUIS, MO.—Bids are asked by the Board of Public Improvements until April 21 for the construction of three miles of streets to be paved with brick. Estimated cost, $185,000.

AUSTIN, TEX.—The Attorney General's Department has approved the following bond issues: Palestine St. improvement, $24,500; Jefferson County road improvement, $300,000.

TAYLOR, TEX.—Bonds for $25,000 have been authorized for constructing macadam road.

HOUSTON, TEX.—Bids are asked until April 14, by John B. Ashe, County Audr., for paving three miles of the Westheimer road, Harris County.

Bids are asked until noon, April 15, by John B. Ashe, County Audr., for grading the Harrisburg short cut road.

PORTLAND, ORE.—ELWOOD MILES was awarded the contract on March 27, by the Prospect Park Co., for laying asphalt pavement on 2¼ miles of streets in Irvington, at about $170,000.

LOS ANGELES, CAL.—The City Council has awarded the contract by the Board of Public Works, to the BARBER ASPHALT PAVING CO., Seventh and Hooper Sts., San Francisco, Cal., for the improvement of Figueroa St. Horace B. Ferris is Secy. of the Board.

C. W. SHAFER secured the contract for improving Stephenson Ave.

BRANTFORD, ONT.—Bids are asked until noon, April 23, by Samuel Suddaly, Chn. Bd. Pub. Wks., for paving brick that may be required during 1908.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

BROCKTON, MASS.—Plans for a 6-story brick factory on Montello St., Brockton, Mass., to be occupied by Stacy, Adams & Co., which Gardner Bros. expect to build, have been completed. The building is designed to replace the present wooden factory on Montello St., the latter to be moved. The new building will be 57 × 132 ft., with a wing 80 × 40 ft.

HARTFORD, CONN.—Patrick Donaghue will erect a new block for factory purposes on Ann St., to be of mill construction 40 × 85 ft., four stories high with basement. He will receive bids for the construction of the same.

GLENVILLE, N. Y.—The management of the American Locomotive Works at Schenectady is planning erection of a shop for building freight cars soon, on land owned by the company at Glenville, near Schenectady. H. W. Hequembourg is Gen. Mgr. of the company.

BUFFALO, N. Y.—A 3-story box factory will be built here by the Mutual Package Co. Cost, $50,000.

BUFFALO, N. Y.—The Aldrich Mfg. Co., manufacturers of copper and brass goods, have purchased the old plant of the Kellogg Iron Works, corner Illinois and Mary Sts., and will erect a 6-story reinforced concrete factory building, 150 × 100 ft., on the property as an addition to its present plant on the opposite side of Illinois St. I. A. Aldrich is Pres. of the company, 55 Illinois St.

RENSSELAER, N. Y.—It is stated that the Boston & Albany R. R. Co. will begin construction of a new roundhouse at its Rensselaer yards soon, the new building to be modern in every particular and of sufficient size to accommodate the large locomotives. It will contain 22 stalls. The engineers of the company have been on the ground taking measurements. W. Shepard, Boston, Mass., is Ch. Engr.

ELLIS ISLAND (New York post-office), N. Y.—Bids are asked by Robert Watchorn, Comr. of Immigration, until 2.20 p. m., April 16, for enlarging laundry and other alterations at the U. S. Immigrant Station at Ellis Island, New York Harbor.

NEW YORK, N. Y.—JOHN T. WOODRUFF & SON, 65 Third Ave., Long Island City, have the general contract for a factory building to be erected on West Ave. near Seventh St., Long Island City, for John Welden. It will have one story, 50 × 100 ft., brick. Cost, $15,000.

MONT ALTO, PA.—FREDERICK A. HAVENS & CO., Perry Bldg., Philadelphia, have the contract, at $10,108, to erect a laundry building at the Pennsylvania State South Mountain Sanitarium, Mont Alto. Samuel G. Dixon is Comr. of Health, Harrisburg, Pa.

SCOTTDALE, PA.—Contracts for the erection of two compressor houses for the H. C. Frick Coke Co. have been let to the CONNELLSVILLE CONSTRUCTION CO. One of these is to be at the Phillips Mine in North Union Township and the other at the Colliery Mine in Georges Township. These houses are to be of brick and work is to be started at once.

ERIE PA.—The RITER-CONLEY MFG. CO., 55 Water St., Pittsburg, has secured a contract for the erection of an addition to the Erie City Iron Works, Erie, which includes a steel frame building 64 ft. 4 ins. wide, 400 ft. from c. to c. of end columns, and 38 ft. 6 ins. high under trusses.

The General Electric Co. of Schenectady, N. Y., will begin erection of foundry buildings at Erie, for manufacturing special castings used for manufacture of motors and generators. Plans will be prepared by the owner.

The International Engineering Co. will build a plant here soon. The company will engage in the manufacture of stationary engines, boilers and locomotives and will employ over 500 men. The officers of the company are H. S. Jeffery, Pres.; E. R. Kyler, Vice-Pres. and Secy.; I. I. Miller, Consult. Engr.; O. J. Hall, Treas.; H. W. Miller, Gen. Supt., and F. C. D. Wilkes, Mechanical Engr.

LARGE, PA.—The contract for the distillery, which will replace the one recently destroyed by fire, has been awarded by the Large Distilling Co., Machesney Bldg., Pittsburg, to the BOLLINGER-ANDREWS CONSTRUCTION CO., Empire Bldg., Pittsburg, at about $250,000. The new plant will be of brick, steel and concrete, and will be fireproof. The contract for the entire mechanical equipment, power plant, etc., has also been awarded to the above company, which is under agreement to have the plant completed and ready for operation by Sept. 15, 1908.

WASHINGTON, D. C.—Bids were opened at the office of the Superintendent of Prisons and Prisoners, Dept. of Justice, Washington, D. C., for an ice-making machine: Vilter Mfg. Co., Milwaukee, Wis., $4,580, 90 days; Tait-Nordmayer Engineering Co., St. Louis, $5,315, 65 days; Ruemmell-Dawley Mfg. Co., 3900 Chouteau Ave., St. Louis, $5,800, 90 days; Creamery Package Mfg. Co., 184 East Kinzie St., Chicago, $5,420, 60 days; York Mfg. Co., York, Pa., $5,000; 100 days.

McLAUGHLIN BROS., 100 East Lexington St., Baltimore, Md., have secured the contract to erect a 2-story brick trunk factory of mill construction for James S. Topham, 1219 F St., to cost $20,000. It will be equipped with steam heat, electric elevators, motor and woodworking machinery.

SIMPSONVILLE, S. C.—Arrangements have been perfected for the construction and equipment of the Simpsonville Cotton Mills, Simpsonville, S. C. The management has engaged J. E. Sirrine, of Greenville, S. C., as architect, and awarded contracts for buildings and machinery. G. H. CUTTING & CO., 31 Foster St., Worcester, Mass., have the contract to erect the buildings. There will be an equipment of 8,000 spindles and 200 looms for the production of print cloth. About 160 operatives will be required. The looms will be furnished by the DRAPER CO., Hopedale, Mass.; the picker room equipment by the KITSON MACHINE SHOP, 491 Dutton St., Lowell, Mass.; the frames by the WOONSOCKET MACHINE & PRESS CO., and the cards and spinning machinery by the MASON MACHINE WORKS, Oak St., Taunton, Mass. The officers of the enterprise include Edward F. Woodside, Pres. and Treas., and John T. Woodside, Secy.

MADISON, GA.—The Madison Milling & Mfg. Co. will establish ice plant. The company will erect an iron-covered building, 50 × 60 ft., paper roof. Cost of building, $3,000. Cost of machinery, $10,000. The company will operate a flour and grist mill. F. T. Barclay is Mgr.

SYLACAUGA, ALA.—J. P. Batson proposes to establish a mill for knitting cotton hosiery and will receive estimates on necessary machinery.

NEW ORLEANS, LA.—Lake Bros. & Co., 336 Chartres St., have awarded contract to the AMERICAN MANUFACTURED STONE CO., of New Orleans, for erecting an umbrella factory, to be four stories high and constructed of hollow wall concrete.

NEW ORLEANS, LA.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., has awarded contract for the construction of a saw mill and boat shop at the Naval Station, New Orleans, bids for which were received on March 28, to DAVID H. BARNES, Hennen Bldg., New Orleans, at $55,586. Noted on April 2.

LOUISVILLE, KY.—Press reports state that the Vulcan Louisville Smelting Co. will erect a smelting foundry at 13th and St. Xavier Sts., Louisville.

SANDUSKY, OHIO.—The Bay View Foundry Co. has awarded contract for building its foundry to G. W. DOERZBACH, of Sandusky, for $20,000. The Osborne Engineering Co., o Cleveland, prepared the plans.

CLEVELAND, OHIO.—The American Brass Mfg. Co. will erect a foundry and machine shop on East 49th St. and Luther Ave., N. E. The buildings will be one and two stories in height and will be 40 × 144 ft. and 35 × 135 ft. The contract for the mason work has been awarded to F. & D. LINDHORST, Superior Bldg., and the carpenter work has been let to CHARLES FORSCHNER & SON, 265 Wade Ave., S. W.

BLOOMINGDALE, IND.—We are officially advised that the Bloomingdale Clay Co. will let contracts in about 30 days for a 2-story mill construction building, 96 × 144 ft., to be used for manufacturing stoneware. Return tube slide valve pottery machinery, shafting and hangers will be needed. A. H. Zimmerman, John A. Dailey and M. T. Hidler are Dirs. Cost of building $25,000; machinery, $7,000.

BRAZIL, IND.—Thomas C. Begs and W. H. Johnson, of Terre Haute, Ind., will ask for bids soon for the construction and equipment of an artificial ice plant and cold storage building. Estimated cost, $80,000.

MUSKEGON, MICH.—Robinson & Campau, Archs., Grand Rapids, have plans for a machine shop for the Continental Motor Mfg. Co., Muskegon, to cost $15,000.

TOPEKA, KAN.—The Topeka Barrel & Box Co. will erect a box factory here, it is stated, to cost about $10,000. E. E. Feurt is Gen. Mgr.

LITTLE ROCK, ARK.—The Thomas Fordyce Mfg. Co., J. R. Fordyce, Pres., recently increased its capital stock from $250,000 to $550,000, and will erect a double-gallery shop, 100 × 250 ft. and manufacture cotton-ginning machinery.

DENVER, COLO.—The F. C. Ayres Mfg. Co., hay and grain dealers, has had plans prepared by Kyle & Dugan, Engrs., 282 East Broad St., for a mill building.

LACHINE, QUE.—It is stated that the Imperial Locomotive Works, Ltd., will begin the construction of buildings in the early spring at Lachine, and the installation of the plant will be begun as soon as possible. A site of a hundred acres has been secured opposite Lachine station of the Grand Trunk Ry. System. The cost of the plant will be about $2,250,000.

TORONTO, ONT.—Bids are asked by Ellis & Connery, Archs., Manning Chambers, Toronto, until April 11, for erection and completion of a factory on Queen St., West Toronto.

CAMPBELLFORD, ONT.—The municipality of Campbellford has passed a by-law granting a 5-acre site exemption from taxation and electrical power at $10 per HP. to the Canadian Steel Rolling Mills Co., Ltd., which has agreed to erect a steel rolling mills building of brick, stone, cement or steel or other suitable material or partly of one and partly of another of the said materials, equipped with all modern machinery and plant for the working thereof as a going concern at a cost of not less than $60,000, exclusive of land. The company is to start the erection of this plant at once and to be in position to manufacture sheet or bar iron on or before Jan. 1, 1909, to employ eleven months in the year at least 100 hands for at least ten years. The Canadian Steel Rolling Mills Co. is composed of Henry L. Babcock, 317 Main St., Buffalo, N. Y.; David B. Marwick, of Warren, Ohio; Simon Ludley, of New Britain, Conn.; James Davidson and William Rudkins of Peterboro, Ont.

MISCELLANEOUS CONTRACTS.

(denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

DAM.—Pittsfield, Mass.—The Ambursen Hydraulic Construction Co., Boston, has been awarded contract for building the Mill Brook dam at $34,500.

WHARF.—Fort Totten, N. Y.—Bids are asked until April 29, by Lieut. Chas. A. Clark, C. A. C. Q. M., Fort Totten, for constructing an addition to wharf at this post.

*DREDGING.—Wilmington, Del.—Bids are asked until 11 a. m., May 7, by Maj. C. A. F. Flagler, Corps Engrs., U. S. A., Wilmington, Del., for dredging Christina Creek, N. J.

*IRON FENCE.—Fort Ontario, N. Y.—Bids are asked until 11 a. m., May 20, by Lieut. A. R. Williams, Const. Q. M., Oswego, N. Y., for constructing an iron and wire fence at this post.

*AMMUNITION HOISTS.—Sandy Hook, N. J.—Bids are asked by Maj. C. A. F. Flagler, Corps Engrs., U. S. A., Wilmington, Del., for furnishing and delivering two ammunition hoists at Fort Mott, N. J.

TELEPHONE SYSTEM.—Virginia, Man.—Bids are asked by James F. Menlove, Secy.-Treas., until noon, May 10, for the installation of a complete rural telephone system in Wallace Municipality.

*DREDGING.—Bangor, Me.—Bids are asked until noon, May 7, by Maj. George A. Zinn, Corps Engrs., U. S. A., 537 Congress St., Portland, Me., for ledge excavation and dredging in Penobscot River at Bangor.

SAND.—New York, N. Y.—Bids are asked until 3 p. m., April 16, by the Department of Parks, for furnishing and delivering 600 cu. yds. of white beach sand for playgrounds in parks in Boro. of Manhattan.

*FOUNDATION PIERS.—Wilmington, Del.—Bids are asked until 11 a. m., April 23, by the Light-House Engineer, Wilmington, for the erection of foundation piers for the tower at Bellevue Range Rear Light-Station, Del.

DITCHES.—Houston, Tex.—Bids are asked by John B. Ashe, County Audr., until noon, April 14, for completion of the Medberry ditch. Bids are also asked until noon, April 15, for construction of several drainage ditches.

AMPHITHEATER.—Milwaukee, Wis.—Contract for building the stairways, seats and amphitheater in Lake Park has been awarded by the Park Commission to the MILWAUKEE CONSTRUCTION & SIDEWALK CO., for $14,938.

*SEAWALL, ETC.—Boston, Mass.—Bids are asked until 10 a. m., May 6, by Capt. Ira L. Fredendall, Constr. Q. M., 263 Summer St., Boston, for the construction of a reinforced concrete seawall, rip-rap revetment, etc., at Fort Warren, Boston Harbor.

DREDGING.—New York, N. Y.—Bids are asked until noon, April 14, by Allen N. Spooner, Comr. Docks, for contract No. 1115 for furnishing all the labor and materials required for dredging about 200,000 cu. yds. in the North River, Boro. Manhattan.

STEAMER.—Washington, D. C.—Bids are asked until April 30, by the Quartermaster-General, U. S. A., Washington, for the construction and complete equipment of a twin-screw, steel cable steamer for Army service; length, 160 ft.; breadth, 32 ft.; depth, 17 ft.

SEAWALLS.—North Scituate, Mass.—Bids are asked at the office of the Board of Harbor and Land Commissioners, at Boston (Frank W. Hodgdon, Ch. Engr.) until April 17, for building concrete seawalls at North Scituate. Frank W. Hodgdon is Ch. Engr.

ICE PIERS.—Halifax, N. S.—Bids are asked until April 24 for the construction of three ice piers in the Annapolis River at Annapolis Royal, Annapolis County, N. S. C. E. W. Dodwell, Res. Engr., Halifax, N. S.; E. G. Millidge, Res. Engr., Antigonish, N. S.

STEAMER.—Ottawa, Ont.—Bids are asked by F. Gourdeau, Secy. Dept. Marine and Fisheries, Ottawa, until noon, April 28, for a steel twin-screw lighthouse tender and buoy steamer, measuring over all 194 ft.; breadth, moulded, 35 ft.; depth, moulded, 17.6 ft.

WHARF.—Providence, R. I.—Contract for constructing wharf on west side of Providence River, north of Fields Point (bids opened March 26), has been awarded to the TANK & McKINNON CONSTRUCTION CO., of Providence. Walter T. Slade is Comr. Pub. Wks.

LIGHT STATION.—San Francisco, Cal.—Bids are asked by the Light-House Engineer, San Francisco, until noon, April 21, for constructing landing and approach, substructure and superstructure, including buildings for Carquinez Straits light-station, in Carquinez Straits, Cal.

SEAWALL.—Newport, R. I.—Bids are asked until 10 a. m., May 11, by Capt. Willis C. Metcalf, Q. M., U. S. A., in charge of construction, 209 Thames St., Newport, for the construction of a seawall, removal of face cover, grading, filling, sodding, etc., at Fort Adams, R. I.

*DIKE.—Boston, Mass.—Bids are asked until 2 p. m., April 24, by the Board of Harbor and Land Commissioners, State House, Boston, for building an earthen dike with timber corewall and sluices across the mouth of Herring River at Wellfleet. Frank Hodgdon is Ch. Engr.

*CONCRETE SEAWALL.—Key West, Fla.—Bids are asked until 11 a. m., May 1, by Capt. C. H. Lanza, Q. M., for constructing at Fort Taylor, this city, a reinforced concrete sea wall about 2,200 ft. long; and for making a fill in rear of same about 250,000 cu. yds. Plans, specifications, etc., are on file at office of Engineering News, New York.

*JETTY.—Savannah, Ga.—Bids are asked by Lieut.-Col. Dan C. Kingman, Corps Engrs., U. S. A., until noon, May 7, for raising and repairing the south jetty at Cumberland Sound, Ga., and Fla.

CEMENT.—Boston, Mass.—J. P. O'CONNELL, Dorchester, Mass., has been awarded contract by Supt. of Supplies Walter F. Burk for furnishing 3,213 bbls. of Portland cement to the city to be used on Sections 1 and 2 of the Stony Brook channel, at $1.45 a bbl., 380 lbs. net.

*DREDGING.—New London, Conn.—One bid was recorded as follows, on April 1, by Maj. Harry Taylor, Corps Engrs., U. S. A., for dredging 90,000 cu. yds. in Connecticut River, Conn.: The Hartford & New York Transportation Co., Hartford, Conn., 11 cts. a cu. yd.; total, $9,900. (Recommended for acceptance.)

SODDING.—New York, N. Y.—Bids are asked by the Com. on Buildings, College of the City of New York, until noon, April 16, for the work of sodding the grounds about the buildings of the College of the City of New York, located on St. Nicholas Terrace, 140th St., Amsterdam Ave. and 138th St., Boro. of Manhattan.

DREDGER.—Chico, Cal.—The Butte Creek Consolidated Dredging Co., owning 1,400 acres along Butte Creek, ten miles from Chico, has signed a contract with EDWARD L. SMITH, of Chico, to construct and have in operation within seven months a $110,000 steel dredger on the Stokes Place, two miles from Centerville, Cal.

TUNNEL.—New York, N. Y.—Bids are asked by Bellevue and Allied Hospitals, Department of New York, until 3 p. m., April 16, for all the labor and materials required for a tunnel connecting the training school for women nurses with pavilions A and B of the new Bellevue Hospital, situated under 26th St., east of First Ave., Boro. Manhattan.

STONE CRUSHING PLANT.—North Pownal, Vt.—An auction sale of the entire and fully equipped stone crushing plant, with all necessary appurtenances, rights and privileges formerly belonging to the Pownal Stone Co. of North Pownal, Vt., will take place at the works of the company at North Pownal, on April 15, at 2.30 p. m. Jarvis P. O'Brien, Trustee, 16 First St., Troy, N. Y.

*DOCK WHARF.—New York, N. Y.—Bids were recorded on April 1, by G. C. Burnell, Constr. Q. M., for construction of storage dock and timber wharf at Fort Wood. Lowest bidder for storage dock, McHarg-Barton Co., 299 Broadway, New York City; straight construction, $56,900; alternate, $69,000. Lowest bidder for timber wharf, Lawler Bros. Construction Co., 21 Park Row, New York City, $11,325.

*NAVIGATION PASS.—Wheeling, W. Va.—Bids were recorded as follows on March 27 by Capt. F. C. Boggs, Corps Engrs., U. S. A., for constructing 700 ft. of navigation pass for Dam No. 8, Ohio River. The lowest bid was that of the T. A. Gillespie Co., of Pittsburg, Pa., at $308,619. The Sheridan-Kirk Contracting Co., of Cincinnati, Ohio, bid $310,630 and the Dravo Construction Co., of Pittsburg, $318,975.

*PIERHEAD LINE. — HEARING. — New York, N. Y.—There will be a public hearing by New York Harbor Line Board, 11 a. m., April 22, at 39 Whitehall St., New York, on application Department of Docks and Ferries, New York City, for modification of U. S. pierhead line on North River from West 224 to West 724 Sts. Parties interested are requested to attend. D. W. Lockwood, Col. Engrs., U. S. A., Senior Member.

FIRE ALARM SYSTEM.—Montreal, Que.—Bids are asked by L. O. David, City Clk., until noon, April 16, for a complete new fire alarm equipment and installation of same necessary for the new fire alarm telegraph department headquarters, Berthelet St. Specifications and any information concerning the above installation can be obtained at the office of the Superintendent of the Fire Alarm Telegraph, City Hall, Montreal.

ORDNANCE.—Washington, D. C.—Bids were received as follows, April 3, at the office of the Chief of Army Ordnance, Washington, for 800 12-in. cast-iron shell: Midvale Steel Co., Philadelphia, $32.20 each. New Jersey Foundry and Machine Co., 9 Murray St., New York, $29.07. Tredegar Co., Richmond, Va., $28.10. Richmond Iron Works, Richmond, Va., $29.48. Bethlehem Steel Co., South Bethlehem, Pa., $42.87.

STEAMER.—Portland, Ore.—Contracts for the construction of a new steel steamer for use on Puget Sound and also for four new Scotch marine boilers for the steamship "Roanoke," have been awarded to the WILLAMETTE IRON AND STEEL WORKS, of Portland. The contracts amount to about $200,000. The steamer will be a propeller craft, and will be owned by the Port Orchard Route, of Seattle, Wash. It will be a passenger craft, exclusively, and will operate between Seattle and Tacoma.

SUBWAY.—New York, N. Y.—Bids are asked by the Public Service Commission, First District, until noon, May 8, at 154 Nassau St., for construction of six sections of the Fourth Ave. subway in Boro. of Brooklyn: (A) Flatbush Ave. extension, Nassau St. to Willoughby St., Manhattan Bridge No. 1; (B) Willoughby St. to Ashland Place; (C) Fourth Ave. and Ashland Place to Fulton St. and Sackett St.; (D) Fourth Ave., Sackett St. to Tenth St.; (E) Fourth Ave., Tenth St. to 27th St.; (F) Fourth Ave., 27th St. and 43d St. Travis H. Whitney, Secy.

HOSE.—Hartford, Conn.—The Board of Fire Commissioners, subject to the approval of the Board of Contract & Supply, has awarded the contract for supplying 3,000 ft. of 2½-in. fire hose to the fire department, as follows: To the MINERALIZED RUBBER CO., of New York, 1,000 ft. at a price of not more than 72 cts. a ft., fitted with the McIntyre coupling; to the COMBINATION LADDER CO., of Providence, R. I., 2,000 ft. at 73 cts. a ft., with the understanding that a deduction of 8 cts. a foot will be made for couplings which may be furnished by the Hartford department. There were two other bidders, the Eureka Fire Hose Co. and Cornelius Callahan Co., both of Boston.

CANAL.—Hamilton, Mont.—Bids are asked by the Bitter Root Valley Irrigation Co., Hamilton, until noon, April 15, for construction of 35 miles of irrigation canal in Ravalli County, Mont., consisting of about 800,000 cu. yds. of excavation; 5,000,000 ft. B. M. timber; 8,000 lin. ft. pile driving. Also the construction of an earth dam, with the necessary reinforced concrete, outlet conduit gates, gate wells, etc., with approximately 480,000 cu. yds. of puddled embankment. The canal construction may be let as a whole or in sections, as may seem advisable to the company. Each proposal must be accompanied by a certified check for $1,000. L. E. Wolgemuth is Gen. Mgr.

BOAT WAGONS, CARTS, ETC.—New York, N. Y.—Bids are asked by S. I. Kimball, Gen. Supt. U. S. Life Savings Service, Treasury Dept., Washington, D. C., until 2 p. m., April 15, for the construction of 20 McLellan boat wagons, ten with runners and ten without runners, to be delivered at the storehouse of this service, 379 Washington St., New York. Plans and specifications, forms of proposal, etc., can be obtained upon application to Capt. C. H. McLellan, U. S. R. C. S., retired, superintending construction of life boats, apparatus, etc., life saving service, room 725-A, Custom House, New York.

Bids are also asked until 2 p. m., April 16, for the construction of 30 beach-apparatus carts with reels complete and 15 additional reels to be delivered at the storehouse of the life saving service, 379 Washington St., New York.

CONTRACT PRICES.

[Where * precedes items under Contract Prices the work was advertised in Engineering News.]

*SEWAGE DISPOSAL PLANT, SEWERS.—Auburn, N. Y.—Bids were received by C. August Koenig, Mayor, on March 17, for the construction of sewers and appurtenances and a disposal works. (Bids were given on March 26.) W. Thomas Wooley, City Engr. The bids in detail were as follows—(A) Pacific Flush Tank Co., 184 La Salle St., Chicago; (B) Joseph Dunfee, 427 Kirk Block, Syracuse, N. Y.; (C) Bolton G. Coon, Wilkes-Barre, Pa.; (D) The Kellam & Shaffer Co., Schenectady, N. Y.; (E) Chas. T. Hookway, Syracuse, N. Y.; (F) Monarch Contracting Co., Syracuse, N. Y.; (G) H. R. Beebe, 15 Mann Building, Utica, N. Y.; (H) THOMAS VISCOUNT, 868 Flora St., Elizabeth, N. J. (awarded contract for sewers); (I) Thomas Crimmins Contracting Co., 444 East 69th St., New York; (J) THE BECKWITH CO., Herkimer, N. Y. (awarded contract for disposal plant); (K) Spuyten Duyvil Construction Co., 271 West 125th St., New York; (L) Brayer Bros., Auburn, N. Y.; (M) Robert McClenathen, Auburn, N. Y.:

Sewers:	(B)	(D)	(F)	(H)	(I)	(L)	(M)
15,196 lin. ft. of 8" sewers	$0.24	$0.27	$0.30	$0.25	$0.33	$0.22	$0.27
11,108 lin. ft. of 10" sewers	.35	.35	.35	.33	.45	.29	.39
6,025 lin. ft. of 12" sewers	.57	.45	.45	.42	.56	.40	.50
3,622 lin. ft. of 15" sewers	.61	.60	.60	.55	.84	.48	.69
304 lin. ft. of 18" sewers	1.00	.76	.80	.68	.90	.58	.89
1,250 lin. ft. of 20" sewers	1.18	.95	1.00	.86	1.15	.76	1.16
15,000 lin. ft. of 5" sewers for house service	.16	.13	.15	.13	.17	.12	.14
5,657 cu. yds. excavating rock or boulders containing more than 10 cu. ft.	4.10	4.10	4.30	3.00	4.50	4.50	3.50
43,660 cu. yds. excavating earth and boulders containing 10 cu. ft. and under	.89	.68	.80	.68	.96	.99	.93
24,550 lin. ft. 4" drain tile, furnishing and laying in the same trench with sewer	.15	.08	.10	.11	.15	.10	.09
6,002 lin. ft. 6" drain tile, furnishing and laying in the same trench with sewer	.17	.12	.12	.15	.17	.14	.14
6,713 lin. ft. 8" drain tile, furnishing and laying in the same trench with sewer	.21	.20	.20	.20	.22	.19	.19
721 ft. in vertical height of 84 manholes, without overflow for drain pipe, per ft. in height	5.75	7.00	6.00	4.75	6.00	6.00	6.00
Extra per manhole where same does contain overflow for drain pipe for 30 manholes	5.00	5.50	1.50	4.50	6.00	2.50	5.00
12 flush tanks, each, setting, but not furnishing emptying device, except water supply connection	80.00	78.00	70.00	47.50	80.00	50.00	60.00
150 ft. of 3 A lead pipe, ½" internal diam., weighing 2 lbs. 8 oz. per ft. in place, with necessary connection	.50	.60	.40	.60	.65	.50	.50
12 lampholes, including cast-iron head, each	12.00	13.00	10.00	8.00	28.00	10.00	15.00
50 tons of cast-iron pipe, price per ton furnished and laid in place, not including excavation	50.00	38.00	30.00	35.00	45.00	50.00	45.00
300 yds. of embankment	1.00	.35	.70	.50	.35	.40	.50
300 yds. of excavation	1.25	.30	.40	.50	.90	.40	.50
400 yds. of gravel, stone or cinders placed about drain tile	2.00	1.50	1.25	2.00	1.50	1.25	1.50
50,000 ft. B. M. of lumber in place in artificial foundation	37.00	35.00	35.00	45.00	55.00	40.00	40.00
50,000 ft. B. M. of lumber used for sheeting and bracing, left in trench by engineer	25.00	35.00	30.00	45.00	55.00	40.00	40.00
200 cu. yds. 1-3-5 P. C. concrete used around tile or appurtenances	6.00	6.00	7.00	5.00	6.00	5.00	6.00
Total	$99,271	$86,942	$93,216	$79,488	$110,065	$100,326	$96,297
Working days	200—$2,000	200—$2,000	200—$2,000	200—$2,000	150—$1,500	450—$4,500	200—$2,000
Total, including working days	$101,271	$88,942	$95,216	$81,488	$111,565	$104,826	$98,297

Sewage Purification Plant:*	(B)	(C)	(E)	(G)	(I)	(J)	(K)	(M)
4 sets automatic feeding and discharging appliances for contact filters	$2,400.00	$2,500.00	$2,000.00	$2,500.00	$3,200.00	$2,250.00	$2,700.00	$2,500.00
6,400 cu. yds. excavating earth and boulders containing 10 cu. ft. and under	.58	.50	.70	.54	.75	.40	.45	.50
10 cu. yds. rock and boulders excavated, containing more than 10 cu. ft.	2.50	3.25	4.00	3.50	3.90	2.00	3.50	3.00
3,200 cu. yds. filling	.35	.40	.40	.54	.46	.40	.40	.50
1,025 cu. yds. concrete of cement, sand and screened gravel	11.00	11.00	9.25	10.00	12.25	10.00	10.00	11.00
1,025 cu. yds. concrete of cement and mixed sand and gravel as taken from pit	11.00	11.00	9.25	10.00	7.00	10.00	10.00	11.00
1,025 cu. yds. concrete of cement, sand, screened gravel and crushed stone	10.00	11.00	9.25	10.00	10.00	8.84	10.00	11.00
1,025 cu. yds. concrete of cement, sand and crushed stone	10.00	11.00	9.25	10.50	12.50	8.84	10.00	10.00
11,325 lbs. steel rods for reinforcing concrete masonry, in place	.05	.08	.06	.05	.06	.06	.06	.05
15,625 lbs. steel fabric for reinforcing concrete masonry, in place	.10	.08	.12	.06	.07	.06	.07	.06
11,025 cu. yds. crushed stone for filters, in place	1.55	1.00	1.40	1.55	2.25	1.50	1.90	1.50
11,025 cu. yds. bank gravel, for filters, in place	1.55	1.00	1.40	1.50	2.00	1.50	1.90	1.80
11,025 cu. yds. cinders, for filters, in place	1.75	....	1.40	1.50	2.10	1.50	1.90	1.80
484 ft. 20" sewer pipe laid in and about filters	.70	1.30	1.00	.74	1.00	.69	.90	.74
268 ft. 15" sewer pipe laid in and about filters	.45	1.20	.60	.46	.75	.49	.55	.50
1,368 ft. 12" sewer pipe laid in and about filters	.37	1.00	.50	.35	.65	.37	.45	.40
1,324 ft. 10" sewer pipe laid in and about filters	.35	.84	.40	.26	.55	.27	.35	.35
1,919 ft. 8" sewer pipe laid in and about filters	.25	.75	.30	.19	.45	.22	.25	.25
1,572 ft. 6" sewer pipe laid in and about filters	.15	.50	.18	.14	.35	.18	.25	.20
Lump price for all other materials and labor required by plans, except feeding and discharging appliances	3,200.00	3,800.00	3,500.00	3,478.00	3,500.00	4,585.00	4,000.00	3,400.00
Total	$42,069	$50,757	$41,488	$42,441	$56,119	$39,945	$46,400	$41,318
Working days	150-$1,500	140-$1,400	150-$1,500	120-$1,200	150-$1,500	150-$1,500	175-$1,750	150-$1,500
Total, including working days	$43,569	$52,157	$42,988	$43,641	$57,619	$41,445	$48,150	$42,818

*(A) bid $2,500 for four sets of automatic appliances, or a total of $3,400, including working days.

*SEWER.—Louisville, Ky.—Bids were received by the Commissioners of Sewerage on April 2, for the construction of Section "C," of the Southern Outfall Sewer. P. L. Atherton is Chn. Comrs. J. B. F. Breed is City Engr. The itemized bids and bidders were as follows: (A) American Engineering & Construction Co., Chicago, Ill.; (B) E. G. Nave Bro. Co., Portsmouth, Ohio; (C), C. T. McCracken Co., Columbus, Ohio; (D), H. Bickel Co., Louisville, Ky.; (E), Mason & Hanger, Frankfort, Ky.; (F), Abadie Co., St. Louis, Mo.; (G), C. H. Fath & Co., Cleveland, Ohio.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
825 lin. ft. earth excavation and refill	$25.00	$22.00	$21.60	$25.50	$27.00	$23.00	$37.50
1,979 lin. ft. earth excavation and refill	25.00	29.00	31.10	35.50	28.00	32.00	43.50
1,402 lin. ft. earth excavation and refill	25.00	28.00	32.80	35.50	29.00	35.00	50.00
4,206 lin. ft. concrete masonry	19.25	19.36	16.22	17.95	23.00	20.70	23.50
100 cu. yds. additional concrete masonry	10.00	8.00	8.00	10.00	10.00	11.50	8.00
4,206 lin. ft. reinforcing metal (plain square bars)	5.25	6.30	6.32	5.40	5.70	6.60	5.40
4,206 lin. ft. reinforcing metal (corrugated)	5.50	6.54	6.70	5.85	(Lug) 6.00	7.30	5.80
4,206 lin. ft. reinforcing metal	(Cup) 5.50	(Maxwell) 6.37	(Cup) 6.65	(Twisted) 5.50	(Maxwell or Cup) 6.10	(Lug) 6.83	5.80
100 cu. yds. earth excavation below masonry	1.50	1.00	2.00	1.00	3.00	1.00	1.00
100 cu. yds. gravel refilling below masonry	1.50	1.00	2.00	1.00	3.00	1.00	.75
307 lin. ft. manholes	5.00	4.80	5.00	5.50	3.50	3.70	5.00
1,200 lin. ft. underdrains, 8"	.40	.40	.40	.45	.50	.45	.50
3,000 lin. ft. underdrains, 10"	.45	.40	.50	.55	.70	.57	.70
Cleaning up	2,000.00	1,000.00	3,500.00	500.00	1,000.00	2,000.00	2,500.00
Totals	$215,913	$227,171	$229,789	$245,267	$246,114	$255,877	$318,070
Engineer's estimate	$267,074						

U. S. POSSESSIONS AND CUBA.

HOSPITAL.—Porto Rico.—Bids are asked by Frank C. Wood, Q. M., 48 Crus St., San Juan, P. R., until noon, May 15, for constructing a hospital at this post.

PIPE.—Panama.—The Isthmian Canal Commission, Washington, D. C., has awarded to the YOUNGSTOWN SHEET & TUBE CO., Youngstown, Ohio, contract for the furnishing of 48,400 ft. of extra-strong wrought-iron pipe, at $18,835.

CABLEWAYS.—Panama.—Acting under instructions from the Chief Engineer of the Isthmian Canal Commission, Col. H. F. Hodges, Gen. Purchasing Officer, has rejected all bids received Feb. 18 for two cable railways and eight duplex cableways to be used in the construction of the Gatun dam.

CEMENT.—Panama.—The Isthmian Canal Commission has postponed the opening of bids for 4,500,000 bbls. of Portland cement from 10.30 a. m., April 13, to May 1, at the same hour. Bids will be received until that time at the office of Col. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C.

ROCK DRILLS.—Panama.—Bids were received as follows March 30, at the office of the Isthmian Canal Commission, Washington, D. C., for furnishing 25 rock drills, complete, 3⅝-in. diameter cylinder, with full set of spare parts: Chicago Pneumatic Tool Co., 85 Liberty St., New York, $7,529; Ingersoll-Rand Co., 11 Broadway, New York, $8,316, 25 days; International Electric & Engineering Co., New York, $6,859 (on McKiernan drills), 45 days: Sullivan Machinery Co., Railway Exchange, Chicago, $8,316, 50 days; Wood Drill Works, Paterson, N. J., $6,737, 50 days.

*SEWER SYSTEM. — Philippines. — Bids were received by the Municipal Board, Manila, on Jan. 19 for furnishing and installing electrically driven pumps and motors for the new sewer system in the city of Manila. There will be one main station, and five substations, each equipped with two pumps and corresponding motors, or a total of twelve pumps and motors. The contract was awarded to FRANK L. STRONG, of Manila, P. I., on Worthington pumps and General Electric Motors. The bids were: Atlantic, Gulf & Pacific Co., $67,600; Frank L. Strong, $53,606; Germann & Co., $46,995; Findlay & Co., $49,250; D'Olier Eng. Co., $36,600. The bid of the D'Olier Eng. Co. was not in form and could not be considered. Bids from the Bethlehem Steel Co. and F. H. Thompson were received too late to be considered.

POWER PLANT.—Panama.—Lieut.-Col. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., has awarded contract for installing a large electric power plant to be used in the construction of the Gatun dam to the GENERAL ELECTRIC CO., Schenectady, N. Y., at $200,621. The specifications call for a plant consisting of five turbine generators, 750 KW., two horizontal surface condensers, one horizontal surface condenser of different type, two engine-driven dry vacuum pumps, two horizontal engine-driven centrifugal circulating pumps, 18-in., piping and fittings for engine-rooms, one single-trolley electric crane, 20 tons, five generators, 1,000 K. V. A. exciters, three turbo-generator exciters, three rotary converters, nine oil-cooled transformers, nine standard air-blast transformers (alternative), lightning-arresters, switchboard and connections.

RAILS.—Panama.—Bids were received as follows April 3, at the office of Lt.-Col. H. F. Hodges, Isthmian Canal Commission, Washington, D. C., for 2,031 gross tons of 70-lb. steel rails and other railway supplies: Bethlehem Steel Co., South Bethlehem, Pa., $69,054, 55 days; R. C. Hoffman Co., Baltimore, $64,484, $62,961, 50 days; Lackawanna Steel Co., 2 Rector St., New York, New York delivery, $60,422, 30 days; United States Steel Products Export Co., 24 State St., New York, $65,499, 75 days; R. C. Hoffman Co., Baltimore, were lowest bidders on 13,950 pairs angle bars, at $10,746, and on 150 switch stands, at $975; United States Steel Products Export Co., New York, were lowest bidders on 360,000 lbs. track spikes, at $6,624, and on 150 sets switches, at $3,307; Pittsburg Forge & Iron Co., 1003 Pennsylvania Ave., Pittsburg, were lowest bidders on 100,000 lbs. track bolts, at $2,430; Fox Bros. & Co., 126 Lafayette St., New York, were lowest bidders on 100 No. 7 frogs, at $1,800.

CIVIL SERVICE EXAMINATIONS.

Applications will be received for the position of inspector of hydrants, stopcocks and shop work (no application received at the office of the Commission, by mail or otherwise, after 4 p. m., April 16, will be accepted). The examination will be held on May 7, at 10 a. m. Candidates must have a thorough practical knowledge of iron and brass foundry work, covering the quality of metals and proper methods of molding and casting, and also knowledge of the construction of hydrants, stopcocks, etc., and of the different kinds of machine work necessary in the manufacture and assembling of same. There are no vacancies at present. The salary is $4 a day. The minimum age is 21 years.

INSPECTORS.—New York, N. Y.—Applications will be received by the Municipal Civil Service Commission, 299 Broadway, until 4 p. m., April 21, for the position of Inspector of light and power. (No application received at the office of the Commission, by mail or otherwise, after 4 p. m., on April 21, will be accepted.) The examination will be held on May 12, at 10 a. m. The percentage required is 75 on the technical paper and 70 on all. Inspectors will be required to inspect and pass upon lighting of street and public buildings as to general illumination and economical efficiency. They should also have a general knowledge of location of streets in the various boroughs. There are no vacancies at present. The salary is $1,200 a year. The minimum age is 21 years. Frank A. Spencer, Secy.

Applications will be received for the position of Inspector of Pipes and Castings. (No application receved at the office of the commission, by mail or otherwise, after 4 p. m. on April 9, will be accepted.) The examination will be held on April 30, at 10 a. m. Candidates must have a thorough practical knowledge of iron foundry work, including methods of molding, casting and testing iron pipe and fittings up to the largest sizes. They should be familiar with the quality of foundry iron and the detection of all of the various imperfections that may occur in the molding, casting and testing of large iron pipes. The salary is $4 a day. There are no vacancies at present. The minimum age is 21 years.

Applications will be received for the position of Inspector of Pipe Laying. (No application received at the office of the Commission, by mail or otherwise, after 4 p. m. on April 13 will be accepted.) The examination will be held on May 5, at 10 a. m. The percentage required is 75 on the technical paper and 70 on all. Candidates should have knowledge regarding water pipe, valves, hydrants, etc., and the methods of placing and repairing them, and work relating thereto. There are no vacancies at present. The salary is $4 a day. The minimum age is 21 years.

INDUSTRIAL NOTES.

THE DIAMOND RUBBER CO., Akron, O., states that F. J. Ryan, formerly with the McGuire-Cummings Mfg. Co., is now acting as special representative for the Diamond Rubber Co. in its railroad department.

JONES & WHEELER, Denver, Colo., engineers and constructors of reinforced concrete, wish to announce the formation of the Jones-Wheeler-Cranmer Engineering Company, to succeed them and continue the same business.

THE OFFICES OF THE ELECTRIC WELDING CO., the Lehigh Testing Laboratory and of Mr. Robert A. Cummings of Pittsburg, Pa., Consulting Engineer, have been moved from the House Bldg. to new and larger quarters in the Commercial Bank Bldg., 316 Fourth Ave.

THE WESTINGHOUSE ELECTRIC & MANUFACTURING CO., Pittsburg, Pa., through its export department, has received a contract from the Dominion Iron & Steel Co., of Halifax N. S., for a 500-HP. electric generator, which will be used in the operation of one of the company's iron mines on Belle Island, Newfoundland.

THE BUCYRUS CO., South Milwaukee, Wis., informs us that it has received from the Oliver Iron Mining Co. an order for eight steam shovels of its 95-B type for excavating iron ore. This type of steam shovel was specially designed to meet the requirements of mining work; it is now in use for both mining and quarry work in various parts of this country and also in Norway, Sweden and Spain.

THE AMERICAN HOIST & DERRICK CO., St. Paul, Minn., has had an exhibition at Chicago (on the Illinois Central R. R.) in connection with the meeting of the American Railway Engineering and Maintenance-of-Way Association, of one of its new railway ditching machines. It is of the steam-shovel type, but adapted to travel along a train of cars, loading the material on the cars as it proceeds.

THE SANDUSKY PORTLAND CEMENT CO., Sandusky, O., manufacturers of Medusa Waterproof Compound, report it specified by the Bureau of American Republics. The material has recently been used successfully in the following work: Concrete water tanks, Gloekler Bldg., Pittsburg, Pa.; basement walls, Joplin Hotel, Joplin, Mo.; Third National Bank Bldg., St. Louis, Mo.; U. S. Navy Yard, Puget Sound, Wash.; Lynn Haven Hotel, Norfolk, Va.; Cleveland Concrete Block Co., in their entire output; Oregon Short Line construction, Salt Lake, Utah; Oswego Falls Paper Co., Fulton, N. Y.; G. & T. Earle Co., contracts, Wilmington, England; Armour & Co., construction, Chicago, Ill.

THE HARBISON-WALKER REFRACTORIES CO. recently closed a contract with the trustees of the Carnegie Technical Schools of Pittsburg, Pa., for over 2,000,000 of their high grade, light colored front building brick for use in the erection of the great group of buildings founded through the generosity of Mr. Andrew Carnegie. Palmer & Hornbostle, of New York, are the architects. About three years ago the Harbison-Walker Refractories Co., who are large manufacturers of fire clay, silica, magnesia and chrome brick, erected a special plant at Templeton, Pa., for the manufacture of high grade front building brick exclusively. They have furnished millions of these front brick to the largest and most important office buildings, schools, hospitals, court houses, high-class residences, etc., that have been erected in New York and in other parts of the country.

THE S. OBERMAYER CO. has opened a warehouse at 1604 North Broadway, St. Louis, with C. M. Barker in charge. Mr. Barker, as representative of The S. Obermayer Co., has occupied offices in the Roe building for a number of years, and the company, on account of the ever increasing demand for their goods, has found it necessary to carry a large stock of foundry facings and supplies to supply the immediate needs of the foundries in and adjacent to St. Louis, at a more accessible location. The S. Obermayer Co. now has factories and warehouses located as follows: Cincinnati, 647 Evans St.; Chicago, 18th and Rockwell Sts.; Pittsburg, 35th and Charlotte Sts.; Philadelphia, 2514 Aspen St.; St. Louis, 1604 North Broadway; Cleveland, 6305 Euclid Ave.; Denver, 305 Appel Bldg and 620 19th St.; Kansas City, Massachusetts Bldg.; Milwaukee, 696 Prospect Ave.; Troy, Campbell's Highway and Thomas St.

GEORGE WESTINGHOUSE, Pres. Westinghouse Machine Co., Pittsburg, Pa., states that the receivers of the Westinghouse Machine Co., appointed Oct. 23, 1907, by the Circuit Court of the United States for the Western District of Pennsylvania, were on March 31, 1908, discharged by the same authority. All of the matters which made a temporary receivership expedient have been satisfactorily arranged, and the company's position is greatly strengthened from every standpoint. All contracts made by the receivers for the sale of the company's product, or for the purchase of materials or merchandise will be carried out as though made by the company's own officers. He also announces the election of Mr. William H. Donner as the Vice-President of the company in direct responsible charge of all of its activities, and gives the assurance of the continuance and accentuation under Mr. Donner's administration of that steadfast policy whereby the clients of The Westinghouse Machine Co. have become friends as well as customers.

THE SCHERZER ROLLING-LIFT BRIDGE CO., 1616 Monadnock Block, Chicago, has furnished us with a statement of the rolling-lift bascule bridge it has now under construction. A number of bridges of this type are being built for the New York, New Haven & Hartford Ry. (in addition to several already in use); among these is a double track bridge across the Seekonk River at Providence, and six-track bridges across the Bronx River an dEast Chester Bay on the Harlem River branch. The New York Central Ry. has under construction a double-track bridge across Wappinger Creek, which will be placed in service in the near future. Double-track bridges for the Lake Shore & Michigan Southern Ry. and the Chicago, Lake Shore & Eastern Ry. at Indiana Harbor crossing the East Chicago Canal, will be ready for service upon the opening of the canal. The Norfolk & Western Ry. has two double-track bridges under construction across the southern and eastern branches of the Elizabeth River near Norfolk, and a single-track bridge is being built for the Seaboard Air Line across Hillsboro Bay, Tampa, Fla., as a part of the new terminal improvements. Two single-track bridges are being built for the Norfolk & Southern Ry., across Albemarle Sound, as the movable spans in a long trestle to replace the present ferry service between Edmonton and Mackay's Ferry. The erection of the single-track bridge crossing Rainy River for the Duluth, Rainy Lake & Winnipeg Ry. and the Canadian Northern Ry. is now being carried on and it is expected to place the bridge in service shortly. Work is also being pushed on the long span double-track bridge for the San Pedro, Los Angeles & Salt Lake Ry. across the San Gabriel River at Long Beach, Cal. It is expected that the combination single-track railway and highway bridge at Barrow-in-Furness, England, and the two double-track bridges for the Buenos Ayres Great Southern Ry. at Buenos Ayres, Argentina, will soon be placed in service, and work is being pushed on the long span bridge for the Burma Railways near Rangoon. Bridges are under construction in Egypt, and the two railway and highway bridges for the Tehuantepec Ry. at Salina Cruz Mexico, will be completed in the near future. About 50 Scherzer rolling-lift bridges have already been constructed for the use of electric street and interurban railway service.

THE BRISTOL COMPANY, of Waterbury, Conn., has come under the control of Prof. William H. Bristol, whose inventions this company has been manufacturing since it was first organized in 1889. Prof. Bristol assumed active charge of the management of the business on Friday, March 28th, and now owns the majority interest. The business, which has been carried on under the personal name of Wm. H. Bristol at New York, will hereafter be combined with The Bristol Company, and by this consolidation of interests The Bristol Company will now have a very complete line of recording instruments for pressure, temperature, electricity, and for a great variety of other applications. The Bristol Company was organized in 1889 under the name of "Bristol's Manufacturing Company" to manufacture Bristol's pressure gages and Bristol's steel belt lacing, for which Wm. H. Bristol had taken out patents. To these were added many other inventions from time to time, and in 1894 the business was incorporated under the name of "The Bristol Company." Two years ago Wm. H. Bristol withdrew from the presidency of the company, and since that time has developed many new inventions, including the Wm. H. Bristol electric pyrometers and patented smoked chart recorders. The new pyrometers have come into wide use, there being, for instance, fifty of these pyrometers in service in one of the large steel plants. Mr. Bristol has taken out a large number of patents during the last three years on new instruments. One of these, which will be soon put on the market, is the long distance electric thermometer, designed especially for indicating and recording refrigeration, atmospheric and drying temperatures. This instrument will fill a long felt want for use where it is desired to quickly indicate at some central station by means of switches the temperatures at several distant points. The new lines of Wm. H. Bristol instruments supplement those of The Bristol Company, supplying a variety for applications for which the old instruments could not be recommended. For example, the standard Bristol's Recording Theremometers cannot be successfully used for temperatures above 600 deg. F., while the Wm. H. Bristol Pyrometers are being applied to great advantage for the higher ranges of temperature, especially for ranges from 600 deg. to 2,600 deg. F. The new lines of Wm. H. Bristol Pyrometers are fitted with special movements made by The Weston Electrical Instrument Company, and are designed for extremely accurate measurements. The combined line of recording instruments to be hereafter manufactured by the Bristol Company will make it possible for the company to cooperate better than ever before with its customers in giving them perfectly satisfactory service.

For other Proposal Advertisements see pages 39, 40, 42, 47, 48, of Advertisements and Construction News page 124.

COMMONWEALTH OF MASSACHUSETTS.
BOARD OF HARBOR AND LAND COMMISSIONERS,
State House, Boston,
March 30, 1908.

Sealed bids or proposals for building a dike at the mouth of Herring River in the town of Wellfleet will be received at the office of the Board of Harbor and Land Commissioners, Room 131, State House, Boston, Mass., until 2 o'clock P. M., FRIDAY, APRIL 24, 1908, and then and there shall be publicly opened and read. The work to be done is the furnishing the materials for and building an earthen dike with timber seawall and sluices across the mouth of Herring River at Wellfleet. The dike is to be about 935 feet long and 22 feet wide on top, with sloping banks protected on the outside by stone riprap and on the river side by earth and sods. All proposals must be made upon blank forms, which, together with information in regard to the work, may be obtained at the office of the Board, and at the office of Whitman and Howard, Civil Engineers, 220 Devonshire Street, Boston, Room 504, where plans and specifications may be seen. Each bidder will be required to give to the Board satisfactory assurance of his competency, experience and responsibility. The right is reserved to reject any and all bids and to waive any defect or informality at the discretion of the Board.

GEORGE E. SMITH,
HENRY J. SKEFFINGTON,
SAMUEL M. MANSFIELD,
Harbor and Land Commissioners.
FRANK W. HODGDON,
Chief Engineer. 15-1t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., April 7, 1908. Sealed proposals will be received at this office until 3 o'clock p. m., on the 21st day of May, 1908, and then opened, for the construction (except elevators), of the U. S. Marine Hospital at Buffalo, New York, in accordance with drawings and specifications, copies of which may be had at this office or at the office of the Custodian of the Site at Buffalo, New York, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising architect. 15-2t

FOR SALE

VALUABLE WATER-POWER FOR SALE. A never-failing water-power on Indian River, Theresa, N. Y.; has over 50 feet fall; new concrete dam; a five-story stone, fireproof building, 50 × 60 feet; plenty of land to build on; river supplied by 300 square miles of drainage area; one of the best water-powers in Northern New York; will be sold only to a manufacturer who will occupy and utilize the same. THE THERESA WOOLEN CO., Theresa, N. Y. 15-1t

FOR SALE.

2—22-ft. Cube Mixers with engine on skids almost new. $550 each.
2—10" Worthington Centrifugal Pumps, with direct connected engine, $400 each. Used one month.
1—10 × 20 Farrell Crusher, complete with power, $1,100; in fine order.
1—40-ton Souther Shovel with 2-yd. dipper, 8' gage; in fine condition. $800. Now working.
28—6-yd. B. & M. Dump Cars; good condition. Make offer.
1—60' Oregon Pine Boom Derrick, 2 months old. Make offer.
2—350' Carson Lidgerwood Cableways, complete with engines, $1,900.
1—Carson Trench Machine, $850.
1—75-HP. Locomotive Type Boiler, $350.
1—60-HP. Locomotive Type Boiler, $300.
Above can be seen near Boston.
1—Hayward Orange Peel Bucket, 2-3-yd. $350; fine condition.

F. O. JOHNSON,
70 Kilby St., Boston.

FOR SALE OR RENT.

Modern Contractor's Plant

Vulcan "Class F" Shovel, with extra high crane, shop number 1254.

Vulcan "Little Giant Special" Traction, shop number 1129, high crane.

Vulcan 45-ton 1½-yard "Giant D," shop number near 975.

Baldwin 30-ton standard gage four-driver saddle tank locomotive.

Davenport 18-ton 36" gage four-driver saddle tank locomotive.

Vulcan 13-ton 36" gage four-driver saddle tank locomotive, built 1902.

Vulcan 13-ton 36" gage four-driver saddle tank locomotive, built 1904.

14—4-yard 2-way 36" gage Western dump cars.

10 Western No. 3 wheeled scrapers, complete.

4 Maney four-wheel scrapers.

Koppel portable outfit, relaying rails, concrete mixers, hoists, drills, etc.

JOHN B. WATSON
Drexel Building. Philadelphia, Pa. 15-1t

Supplement to

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List of Contracts
Railways .....
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Buildings .....
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Sewerage .....
Garbage Disposal
Streets and Roads
Manufacturing P
Miscellaneous Co
U. S. Possessions
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(denotes that thi Engine*

The following Pla (S.) are on file and of The Engineerin 220 Broadway, New

Bids close. Work.

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4-20*Pier, dredgi Wis. .....
4-20 Pipe sewers, ...
4-22*Sewers, Phi .....
4-22*Bridges, Ph .....
4-29*Sewer, Louis
4-30*Dredging, E
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5- 1*Reduction w Ohio .....
5- 1*Concrete se Fla. .....
5- 7*Dredging, 1
5- 7*Jetty, Sava
5-11 Seawall, New
5-16 Lighting sy Colo. ....
5-20*Iron fence, ...

LIST OF C

LIGHT, HEAT

4-18 Power-hous
4-20 Elec. equip
4-21 Light plan
4-23 Elec. plant
4-23 Power-hous
4-23 Power-hous Ark. ....
4-27 Elec. equip
4-28 Light stati
4-29 Electric s
5- 1 Power-hous
5- 1 Air compr
5- 1*Power plan
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5-11 Bridge,

4-18 Prison,
4-18 Building,
4-20 Hotel,
4-20*Heating,
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4-21 Library,
4-21*Hospital
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4-27 Alterati N. Y.
4-27 Heating
4-28 School,
4-28 Post-of
4-28*Post-of
4-30*Schools